

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

December 03, 2014

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

MS. KAREN J. LARSON CLARKE MOSQUITO CONTROL PRODUCTS, INC. 675 SIDWELL COURT ST. CHARLES, IL 60174

Dear Ms. Larson:

Subject: Transfer of Pesticide Registrations and Data From Company Number 63823 to Company Number 8329

Pursuant to your request in your letter and transfer agreement of November 17, 2014, we have approved the transfer of the following registrations from MANAGEMENT CONTRACT SERVICES, INC., company number 63823 to CLARKE MOSQUITO CONTROL PRODUCTS, INC., company number 8329.

The effective date of these changes is the date of this letter.

Registered Products	Old EPA Reg. No.	New EPA Reg. No.
Z112-009	63823-55	8329-95
Z112-010	63823-56	8329-96
Z112-011	63823-57	8329-97
Z112-012	63823-58	8329-98
Z112-013	63823-61	8329-99
Z112-014	63823-62	8329-100
Z112-016	63823-65	8329-101
Z112-015	63823-66	8329-102

You should indicate the new company designation, new EPA Registration Number and new Establishment Number (if it has changed) on the labeling at the next printing which should occur no later than 18 months after the effective date of this transfer. After 18 months,

any product released for shipment must bear the new Registration Number and Establishment Number. If you intend to use the labels which currently appear on the transferor's product after the effective date of the transfer, but within the 18 month grace period, you must maintain complete and accurate records which identify by batch number, lot number, or other suitable description the quantities of such product bearing the transferor's label. Each container or package bearing the transferor's label which is released after the effective date of product registration transfer, must be clearly and accurately marked with the batch number, lot number or other descriptive designation used to identify the product in your records.

Supplemental distribution agreements of registered products do not transfer with the Section 3 registration. It is your responsibility as the registrant to notify any and all supplemental distributors of the transferred product(s) of this transfer agreement. If you wish to enter into supplemental distribution agreements of your product(s) under this new registration, the form "Notice of Supplemental Distribution of a Registered Pesticide Product," EPA Form 8570-5, must be submitted to the Agency for each supplemental distributorship.

You are required to contact your local EPA Regional Office to determine what effect this transfer of pesticide registrations has on the pesticide production establishment registration.

It will not be necessary to submit labeling for review if the only changes are in the company designation and the EPA Registration Number. Other changes in the product and/or labeling may require EPA review and approval prior to distribution or sale of the product containing the new registration number. In any correspondence on these products always refer to the U.S. EPA Registration Number listed above.

The transferred registration will have the same status under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, 7 USC 136 et seq., as it had prior to the approval of this transfer.

When registrations are transferred from one company to a second company, all restrictions, data requirements, conditions (suspensions), and deadlines existing on the registrations are transferred with the registrations. The new company is responsible for adhering to or complying with all such restrictions, etc. on the acquired products.

With regard to deadlines, the transferee company is responsible for submitting all required data according to the schedules already established for the acquired products. Failure to do so will result in the issuance of a Notice of Intent to Suspend. Requests from transferee companies for additional time to submit, because they acquired the registration(s) after the 3(c)(2)(B) request was issued will not be granted. If a transferee company has other valid reasons for delays in the testing which were clearly outside of their control, then such requests for time extensions will be considered in accordance with the established procedures. Transfers occurring while a 3(c)(2)(B) request is being issued or during the 90-day response time are subject to the same conditions expressed above.

Registration is in no way to be construed as an endorsement or approval of these products by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with FIFRA.

Furthermore, the transfer of the subject registrations is approved under the condition that the annual maintenance fee obligation has been fully satisfied. The annual maintenance fee is based solely on the total number of active section 3 and section 24(c) registrations held by the transferor. If the annual maintenance fee has not been fully satisfied, the transferee and transferor will be notified to comply within a specified time period or the affected registrations may be canceled.

The Agency acknowledges it has received a request for data transfer dated November 17, 2014 to transfer data ownership from the transferor to the transferee. The data transfer is effective the date of this letter. After this date **CLARKE MOSQUITO CONTROL PRODUCTS**, **INC.** will be considered the data owner. This action will not automatically reflect on the Data Submitters List. If you want to be added to the Data Submitters List, you must submit a request to:

Document Processing Desk (DSL)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Ariel Rios Building
1200 Pennsylvania Avenue, NW
Washington, DC 20460

By copy of this letter we are informing the transferor of these changes. If you have any questions about this transfer approval please contact Louis Vaughn at (703) 308-8114.

Sincerely,

Steve Robbins, Chief

Information Services Branch

Information Technology & Resource Management Div. (7504P)

cc: MR. W. RONALD LANDIS

MANAGEMENT CONTRACT SERVICES, INC.

P.O. Box 5209

VALDOSTA, GA 31603

RE: 63823 RAD 8329 12 03 2014

	CHECKLIST FOR TRANSFER of REGISTRATION and DATA			
Transf	eror: Management Contract Services, Inc.	Co. #:	6382	3
Transf	eree: Clarke Mosquito Control Products, Inc.	Co. #:	8329	
Transf	er Type: Registration and Data	Date:	LTR: 1	1/17/2014 PP: 11/19/2014
CHECK	REQUIREMEN	NTS		
1	Entry into Log Book	1	Com	pany info checked in OPPIN and printed
√ ,	Products verified in OPPIN (active/cancelled/suspended, etc.)	1		tenance Fee Records checked ve/cancelled/SLN/fee paid)
	Ensure That the Package Contains the Following:			COMMENTS
\checkmark	(1) XFER Agreement Has Original Signatures , Date Signed , Names and Titles of signatories from both parties?			
\checkmark	(2) Name, Address & State of Incorporation of Transferor (& Co. #)	GA		
\checkmark	(3) Name, Address & State of Incorporation of Transferee (& Co. #.)	IL		·
1	(4) Name(s) / List & EPA Registration No.(s) of the product(s) being transferred.			57, -58, -61, -62, -65, -66 and 106 Pages of clusive Use)
1	(5) Statement that the Transferor transfers to the Transferee all right, title, and interest in the EPA registration(s) and data listed in the document.			
1	(6) Statement that the transferred registration(s) shall not serve as collateral or otherwise secure any loan or other payment arrangement or executory promise. The reg'n(s) shall not revert to the Transferor unless a new transfer agreem't is submitted to & approved by the Agency			
1	(7) Description of the general nature of the underlying transaction, e.g., merger spin-off, bankruptcy (no financial info. need be disclosed)	SALE		
1	(8) Statement that the Transferor and Transferee understand that any false statement may be punishable under law (18 USC1001)			
√ √	(9) An acknowledgement by Transferee that its rights & duties concerning the reg'n under FIFRA and 40 CFR, Ch. 1 will be deemed by EPA to be the same as those of the Transferor at the time the transfer is approved.			
√	Data transfers must also include: (1) Name of the study; (2) Is study exclusion as that conducted the study; (4) Date study submitted to EPA; (5) MRII			
Indicate and the state of the s	(10) Notarized Affirmation Statement from Transferor Affirming that:			
1	(A) The person signing the transfer agreement is authorized by the re	egistrant	(and/or	original data submitter) to bind the Transferor.
1	(B) No court order prohibits the transfer, & that any required court ap	provals	nave bee	en obtained.
1	(C) The transfer is authorized under all relevant Federal, State & loca other agreements.	ıl laws, 8	all rele	vant corporate charters, bylaws, partnerships, or
	Note: It is preferable that the Affirmation Statement be signed by sor	neone <u>o</u>	<u>her</u> thar	the person signing the transfer agreement.
1	Look in OPPIN for Next Registration Number for Transferee	8329-	95	
LV	OPPIN Work (Actual Transfer)		79 23.45	
LV	Generate Letter and Give to Branch Chief for Signature			
	Copies of Letter Made and Dist			
LV	Copy mailed to Transferor	L\		nt copies to RD and JFR. PM91, R4, R5
LV	Copy mailed to Transferee	L\		py placed In Transfer File
LV	Updated Log Book		oleted:	Date: 12/04/14
(P.Ga EPA	ments: RAD 12/03/2014. 8 Products and 106 Pages of studies - alloway) emailed to request an update wherein she stated that "AL (L. Vaughn) requested clarification since the Original Transfer Agreeive Line for any of the date." Letter that day (12/03/2014 XOP) of the date.	L RIGH eemen	HTS (to at Sec	the data) are also being transferred." tion 4 staed that, "There is No Claim of
EXCIL	sive Use for any of the data." Later that day (12/03/2014 XOR cl	armed	mar Mo	Exclusive Use is being transferred on the

data.- LWV

Vaughn, Louis

From:

Vaughn, Louis

Sent:

Thursday, December 04, 2014 10:40 AM

To:

Vinjamuri, Santa; Adams, Teretha; Dillard, Sylvia

Cc:

Bryceland, Andrew

Subject:

FW: Transfer 63823 RAD 8329

Attachments:

L_63823_RAD_8329_12_03_2014_CR.pdf; Appendix_A_H.pdf

ALL,

For your records and jackets.

Sylvia and Teretha,

I have separated the letter and the data appendix. Because the Data Appendix is 106 Pages, just put the letter in the product jackets. If anyone needs the Data Appendix they can get it from me or, eventually from Documentum.

Andrew

These are all "S-Methoprene" products (PC Code 105402) assigned to PM91.

Lou

From: Vaughn, Louis

Sent: Thursday, December 04, 2014 10:30 AM

To: 'Peggy Galloway'; Blake Cowen
Cc: Karen Larson; 'slofton@clarke.com'
Subject: Transfer 63823 RAD 8329

Attached, is the Registration and Data Transfer from MANAGEMENT CONTRACT SERVICES, INC. (63823) to CLARKE MOSQUITO CONTROL PRODUCTS, INC.(8329). You transferred 8 Products and 106 pages of studies (No Exclusive Use).

Reg. Products	Old EPA Reg. No.	New EPA <u>Reg. No</u> .
Z112-009	63823-55	8329-95
Z112-010	63823-56	8329-96
Z112-011	63823-57	8329-97
Z112-012	63823-58	8329-98
Z112-013	63823-61	8329-99
Z112-014	63823-62	8329-100
Z112-016	63823-65	8329-101
Z112-015	63823-66	8329-102

Best regards.

For Change of Address or Agent:

http://www.epa.gov/pesticides/registrationkit/change-company-name-address-agent.pdf

For Product Transfers, Data Transfers or Company Numbers Transfers:

http://www2.epa.gov/pesticide-registration/pesticide-registration-manual-chapter-16-transfer-product-registrations-and

For Other Information: http://www2.epa.gov/pesticide-registration/pesticide-registration-manual

Vaughn, Louis

From:

Vaughn, Louis

Sent:

Thursday, December 04, 2014 10:30 AM

To: Cc: 'Peggy Galloway'; Blake Cowen Karen Larson; 'slofton@clarke.com'

Subject:

Transfer 63823 RAD 8329

Attachments:

L_63823_RAD_8329_12_03_2014_CR.pdf; Appendix_A_H.pdf

Attached, is the Registration and Data Transfer from MANAGEMENT CONTRACT SERVICES, INC. (63823) to CLARKE MOSQUITO CONTROL PRODUCTS, INC.(8329). You transferred 8 Products and 106 pages of studies (No Exclusive Use).

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Z112-009	63823-55	8329-95
Z112-010	63823-56	8329-96
Z112-011	63823-57	8329-97
Z112-012	63823-58	8329-98
Z112-013	63823-61	8329-99
Z112-014	63823-62	8329-100
Z112-016	63823-65	8329-101
Z112-015	63823-66	8329-102

Best regards.

For Change of Address or Agent:

http://www.epa.gov/pesticides/registrationkit/change-company-name-address-agent.pdf

For Product Transfers, Data Transfers or Company Numbers Transfers:

http://www2.epa.gov/pesticide-registration/pesticide-registration-manual-chapter-16-transfer-product-registrations-and

For Other Information: http://www2.epa.gov/pesticide-registration/pesticide-registration-manual

Louis Vaughn, Information Management Specialist U.S. Environmental Protection Agency OCSPP/OPP/ITRMD/ISB (703)308-8114 vaughn.louis@epa.gov

Vaughn, Louis

From:

Vaughn, Louis

Sent:

Wednesday, December 03, 2014 2:59 PM

To:

'Peggy Galloway'

Cc:

Blake Cowen; Karen Larson

Subject:

RE: EPA Company No. 63823 Transfers

Peggy,

I was not challenging the use of a "blanket statement" about data in your transfer agreement. I was attempting to clarify the language used in your email of December 03, 2014 which also included a "blanket statement" about the data appendices stating, "...ALL RIGHTS are also being transferred"

I have to be careful with data because data is the largest source of disputes of ownership. And, I usually get caught in the middle of these disputes.

I will proceed with the language off the Original Transfer Agreement (No Exclusive Use).

Louis Vaughn, Information Management Specialist U.S. Environmental Protection Agency OCSPP/OPP/ITRMD/ISB (703)308-8114 vaughn.louis@epa.gov

From: Peggy Galloway [mailto:pgalloway@landisintl.com]

Sent: Wednesday, December 03, 2014 2:27 PM

To: Vaughn, Louis

Cc: Blake Cowen; Karen Larson; Peggy Galloway **Subject:** EPA Company No. 63823 Transfers

Dear Louis:

In the Pesticide Registration Manual, Chapter 16, sub-heading "Required Documentation for Processing Transfer of Data Rights", the third bullet instructs that, along with other information which is itemized in the document, for each study being transferred, a statement must be made as to "whether the study is an exclusive use study, and if so, when the period of exclusive use protection expires." My statement in the Transfer Agreement, Section 4, was to address this requirement with a blanket statement that no exclusive use claims were being made for any of the studies identified in Appendices A-H rather than address exclusive use claims individually for each of the 166 citations.

I have used this blanket statement for other registration transfers. Please let me know if this is acceptable.

Best regards,

Peggy

From: Vaughn, Louis [mailto:Vaughn.Louis@epa.gov]
Sent: Wednesday, December 03, 2014 1:47 PM

To: Peggy Galloway

Cc: Blake Cowen; Karen Larson

Subject: RE: EPA Company No. 63823 Transfers

Ms. Galloway,

Your email below states that, "all rights are also being transferred" with regard to the data. However, Page 2 – Section 4 of the Transfer Agreement states, "There is no claim of exclusive use for any of the data listed...". Please clarify.

For Change of Address or Agent:

http://www.epa.gov/pesticides/registrationkit/change-company-name-address-agent.pdf

For Product Transfers, Data Transfers or Company Numbers Transfers:

 $\underline{\text{http://www2.epa.gov/pesticide-registration/pesticide-registration-manual-chapter-16-transfer-product-registrations-and}$

For Other Information: http://www2.epa.gov/pesticide-registration/pesticide-registration-manual

Louis Vaughn, Information Management Specialist U.S. Environmental Protection Agency OCSPP/OPP/ITRMD/ISB (703)308-8114 vaughn.louis@epa.gov

From: Peggy Galloway [mailto:pgalloway@landisintl.com]

Sent: Wednesday, December 03, 2014 12:42 PM

To: Vaughn, Louis

Cc: Blake Cowen; Karen Larson; Peggy Galloway **Subject:** EPA Company No. 63823 Transfers

Dear Louis:

Attached is a copy of a Registration and Data Transfer Agreement between EPA Company No. 63823 (Management Contract Services, Inc.) and EPA Company No. 008329 (Clarke Mosquito Control Products, Inc.). The original document, along with Appendices A-H listing the data for which all rights are also being transferred, was received in your office on 11/19/14 via Federal Express.

Please advise if it is possible that these registration transfers will be completed prior to January 15, 2015. Clarke Mosquito would like to include them in their total 2015 EPA Maintenance Fee payment, which is due January 15, 2015.

Thank you for your assistance!

Best regards,

Teggy

Peggy M. Galloway Senior V.P., Regulatory Affairs LANDIS INTERNATIONAL, INC. P. O. Box 5126 Valdosta, GA 31603-5126 Valdosta Office (229) 247-6472 Direct (850) 223-2933 Cell (229) 548-2810

Email: pgalloway@landisintl.com

From: (229) 247-6472 Peggy Galloway LANDIS INTERNATIONAL 3185 MADISON HWY

VALDOSTA, GA 31601

Origin ID: VLDA



Delivery Address Bar Code

y Address Dati Code

BILL SENDER

Ref# Invoice# PO# Dept#

SHIP TO: (703) 308-8114 Mr. Louis Vaughn US EPA OPP 7504P (XFER) 2777 S. CRYSTAL DR ONE POTOMAC YARD, \$4900 **ARLINGTON, VA 22202**

WED - 19 NOV AA STANDARD OVERNIGHT

TRK# 7718 9252 8273



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- After printing this label:

 1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
- Fold the printed page along the horizontal line.
 Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits see current FedEx Service Guide. limits, see current FedEx Service Guide

REGISTRATION and DATA TRANSFER AGREEMENT

(Used for transfer of Registrations or Data)
Reference: 40 CFR § 152.135 and 40 CFR § 152.98

M M	ANAGEME OSQUITO	s made this 13 th day of November, 2014, by and between the TRANSFEROR, ENT CONTRACT SERVICES, INC., and the TRANSFEREE, CLARKE CONTROL PRODUCTS, INC. In consideration of mutual covenants and ade and/or for good and valuable consideration, the parties agree as follows:
1.	PARTIES	. For the purpose of this Agreement, "Parties" shall mean:
a)	TRANSF	EROR (Current Registrant and/or data submitter):
	EPA Com	pany Number: 63823
	Name:	MANAGEMENT CONTRACT SERVICES, INC.
	Address	P O BOX 5209

City: VALDOSTA State: GA Zip: 31603-5209 State of Incorporation: GEORGIA

Name of Authorized Representative: WM. RONALD LANDIS

Title of Authorized Representative: PRESIDENT

Original Signature of Authorized Representative:

Date Signed: November 13, 2014

b) TRANSFEREE (Company Receiving Registrations and/or data):

EPA Company Number: 008329

Name: CLARKE MOSQUITO CONTROL PRODUCTS, INC.

Address: 675 SIDWELL COURT

City: SAINT CHARLES State: IL Zip: 60174

State of Incorporation: ILLINOIS

Name of Authorized Representative: Title of Authorized Representative:

Date Signed:

Original Signature of Authorized Representative:

Page 1 of 4

2. **REGISTRATION**. For the purpose of this Agreement, "Registration" shall mean the following EPA registration number(s) and product name(s):

EPA Registration Number	Product Name	
63823-55	Z112-009	
63823-56	Z112-010	
63823-57	Z112-011	
63823-58	Z112-012	
63823-61	Z112-013	
63823-62	Z112-014	
63823-65	Z112-016	
63823-66	Z112-015	

- 3. <u>REGISTRATION ASSIGNMENT</u>. Transferor does hereby irrevocably transfer to the Transferee all right, title and interest in the EPA registrations listed in this document.
- 4. <u>DATA ASSIGNMENT</u>. Transferor does hereby irrevocably transfer to the Transferee all rights, titles and interest in the items of data named herein. Data that are specifically part of this ASSIGNMENT are listed in APPENDICES A H. There is no claim of exclusive use for any of the data listed in the following appendices:

APPENDIX A – Z112-009 – EPA REGISTRATION NO. 63823-55 APPENDIX B – Z112-010 – EPA REGISTRATION NO. 63823-56 APPENDIX C – Z112-011 – EPA REGISTRATION NO. 63823-57 APPENDIX D – Z112-012 – EPA REGISTRATION NO. 63823-58 APPENDIX E – Z112-013 – EPA REGISTRATION NO. 63823-61 APPENDIX F – Z112-014 – EPA REGISTRATION NO. 63823-62 APPENDIX G – Z112-016 – EPA REGISTRATION NO. 63823-65 APPENDIX H – Z112-015 – EPA REGISTRATION NO. 63823-66

- 5. WARRANTY OF TITLE. Transferor warrants that it is the lawful owner of the property hereby conveyed and that such property (registrations and/or data) shall not serve as collateral or otherwise secure any loan or other payment arrangement or executory promise, and that the registration(s) and/or data shall not revert to the transferor unless a new transfer agreement is submitted to and approved by the Agency.
- 6. **REASON FOR TRANSFER**. Sale of registrations from MANAGEMENT CONTRACT SERVICES, INC., to CLARKE MOSQUITO CONTROL PRODUCTS, INC..

- 7. **FALSE STATEMENTS**. The Transferor and Transferee understand that any false statement regarding these documents may be punishable under 18 U.S.C. 1001.
- 8. **TRANSFEREE ACKNOWLEDGEMENT**. Transferee acknowledges that his rights and duties concerning registration under FIFRA and Title 40, Chapter 1 of the Code of Federal Regulations will be deemed by EPA to be the same as those of the Transferor at the time the transfer is approved.

Page 3 of 4

TRANSFEROR AFFIRMATION STATEMENT

Reference: 40 CFR § 152.135(c) and 40 CFR § 152.98(b)

The TRANSFEROR, MANAGEMENT CONTRACT SERVICES, INC., hereby affirms that:

- (1) The person signing the transfer agreement is authorized by the registrant and/or original data submitter to bind the transferor;
- (2) No court order prohibits the transfer, and any required court approvals (if any) have been obtained; and
- (3) The transfer is authorized under all relevant Federal, State and local laws and all relevant corporate charters, bylaws, partnerships, or other agreements.

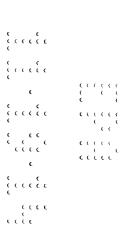
Peggy M. Galloway, Vice President

Date: ///////4

NOTARIAL CERTIFICATE:

KATHY CONNELL
Commission # EE 203487
Expires May 30, 2016
Bonded Thru Troy Fain Insurance 800-385-7019

APPENDIX A – Z112-009 – EPA REGISTRATION NO. 63823-55



My NPIRS

Searches

Meetings

Resources

Contacts

63823-55

Citation, Submitter, Laboratory, Chemistry and Subject

Date of Search: 11/13/14 Time of Search: 15:44

Last Search: PRODUCT DATABASE - EPA REGISTRATION NUMBERS

Number of Citations Selected: 29

46876500 Management Contract Services, Inc. (2006) Submission of Product Che mistry, Toxicity and Efficacy Data in Support of the Application fo r Registration of Z112-009. Transmittal of 5 Studies.

Trade Secret Status: Document Contains CBI

Submitter: MANAGEMENT CONTRACT SERVICES, INC. Submitter No. Submission Date Accession No. 063823 06/28/06 468765 00

Administrative No: 063823-55

NO laboratory records for MRID: 46876500

*** Chemistry Indexing *** SUBSTANCE CLASS: Single FORMULATION: Not Formulated Pesticide 2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle thyl ester, (2E, 4E, 7S)-, (105402)

*** Subject Indexing ***

ROOT DT: 05

Product/Manufacturing Chemistry & Analysis CONTENT CATEGORY: Transmittal Documents

ROOT DT: 10 Pesticide Use

CONTENT CATEGORY: Transmittal Documents

ROOT DT: 40

Pesticide Effects on Non-target Animals (Including Man) CONTENT CATEGORY: Transmittal Documents

46876501 Bradbury, R. (2005) Product Identity and Composition of Z112-009. Project Number: 051107/4. Unpublished study prepared by EcoSafe Na tural Products Inc. 63 p.

Trade Secret Status: CBI Document, Confidential A

Submitter: MANAGEMENT CONTRACT SERVICES, INC. Submitter No. Submission Date Accession No. 063823 06/28/06 468765 01

Administrative No: 063823-55

Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC. 081984

ECOSAFE NATURAL PRODUCTS INC.

```
Lab Project No.: 051107/4
       *** Chemistry Indexing ***
       SUBSTANCE CLASS: Single
                                       FORMULATION: Not Formulated Pesticide
          2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
            thyl ester, (2E, 4E, 7S)-, (105402)
       *** Subject Indexing ***
       ROOT DT: 052010
          Product Mfg - Beginning Materials & Mfg Process
       GUIDELINE: 830.1600
          Description of Materials Used to Produce the Product
       CONTENT CATEGORY: Unattributed Secondary Report
       ROOT DT: 052010
           Product Mfg - Beginning Materials & Mfg Process
       GUIDELINE: 830.1650
           Description of Formulation Process
        CONTENT CATEGORY: Unattributed Secondary Report
        ROOT DT: 052020
           Product Mfg - Formation of Unintentional Ingred/Impurities
        GUIDELINE: 830.1670
           Discussion of Formation of Impurities
        CONTENT CATEGORY: Unattributed Secondary Report
        ROOT DT: 05202504
           Product Mfg - Certification of Limits
        GUIDELINE: 830.1750
           Certified Limits
        CONTENT CATEGORY: Unattributed Secondary Report
        ROOT DT: 0530
           Composition of Pesticide Products
        GUIDELINE: 830.1550
           Product Identity and Composition
        CONTENT CATEGORY: Unattributed Secondary Report
46876502 Wo, C. (2006) Physical and Chemical Characteristics: Color, Physica
        1 State, Odor and Bulk Density: Z112-009. Project Number: 18830, P
        801. Unpublished study prepared by Product Safety Laboratories. 1
        2 p.
        Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                        06/28/06
                                         468765 02
         Administrative No: 063823-55
         Laboratory No.: 954614 PRODUCT SAFETY LABORATORIES
         Lab Project No.: 18830
                                              P801
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 050502
```

```
Physical/Chemical - Color
        GUIDELINE: 830.6302
           Color
        CONTENT CATEGORY: Unattributed Secondary Report
        ROOT DT: 050503
           Physical/Chemical - Physical State
        GUIDELINE: 830.6303
           Physical State
        CONTENT CATEGORY: Unattributed Secondary Report
        ROOT DT: 050504
           Physical/Chemical - Odor
        GUIDELINE: 830.6304
        CONTENT CATEGORY: Unattributed Secondary Report
        ROOT DT: 050507
           Physical/Chemical - Density or Gravity
        GUIDELINE: 830.7300
           Density/Relative Density/Bulk Density
        CONTENT CATEGORY: Unattributed Secondary Report
46876503 Moore, G. (2006) Primary Eye Irritation Study in Rabbits: Z112-009.
          Project Number: 18831, P324. Unpublished study prepared by Produ
        ct Safety Laboratories. 15 p.
        Trade Secret Status: Document Contains CBI
        Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                        06/28/06
                                        468765 03
         Administrative No: 063823-55
         Laboratory No.: 954614 PRODUCT SAFETY LABORATORIES
         Lab Project No.: 18831
                                              P324
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 40050540
            Acute Exposure - Primary Eye Irritation
         GUIDELINE: 870.2400
            Acute Eye Irritation
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
         TEST ORGANISM: Laboratory Mammals - Rabbit
46876504 Bradbury, R. (2006) Laboratory Efficacy Evaluation of Z112-009 Form
                                                                                                ¢
         ulation. Project Number: BA/014. Unpublished study prepared by Pr
         oduct Safety Laboratories. 9 p.
                                                                                             .
ۋدددۇد
                                                                                              Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                        06/28/06
                                         468765 04
          Administrative No: 063823-55
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Laboratory No.: 063823
                                  MANAGEMENT CONTRACT SERVICES, INC.
                         954614
                                  PRODUCT SAFETY LABORATORIES
        Lab Project No.: BA/014
        *** Chemistry Indexing ***
        SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 1005
           Pesticide Use - Product Performance (Efficacy)
        GUIDELINE: 95-10
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        DT SITE: WIDE AREA AND GENERAL INDOOR/OUTDOOR TREATMENTS (ALL/UNSPEC)
46876505 Galloway, P. (2006) Request for Waiver: Z112-009. Project Number:
        Z112009/1. Unpublished study prepared by Management Contract Servi
        ces. 14 p.
        Trade Secret Status: Document Contains CBI
        Submitter: MANAGEMENT CONTRACT SERVICES, INC.
        Submitter No. Submission Date Accession No.
           063823
                       06/28/06
                                       468765 05
        Administrative No: 063823-55
         Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
         Lab Project No.: Z112009/1
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 050514
            Physical/Chemical - Oxidizing or Reducing Action
         GUIDELINE: 830.6314
            Oxidation/Reduction Chemical Incompatability
         CONTENT CATEGORY: 43
         ROOT DT: 40050505
            Acute Exposure - Oral
         GUIDELINE: 870.1100
            Acute Oral Toxicity
         CONTENT CATEGORY: 43
         TEST ORGANISM: Laboratory Mammals - Multiple or Unspecified
         ROOT DT: 40050510
            Acute Exposure - Dermal
                                                                                             . . . . .
         GUIDELINE: 870.1200
                                                                                              ( ( E E
            Acute Dermal Toxicity
                                                                                             e cic
         CONTENT CATEGORY: 43
         TEST ORGANISM: Laboratory Mammals - Multiple or Unspecified
         ROOT DT: 40051020
             Subacute or Subchronic Exposure - Dermal Sensitization
          GUIDELINE: 870.2600
```

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Skin Sensitization
        CONTENT CATEGORY: 43
        TEST ORGANISM: Laboratory Mammals - Multiple or Unspecified
        ROOT DT: 40050515
           Acute Exposure - Respiratory/Inhalation
        GUIDELINE: 870.1300
           Acute Inhalation Toxicity
        CONTENT CATEGORY: 43
        TEST ORGANISM: Laboratory Mammals - Multiple or Unspecified
        ROOT DT: 40050535
           Acute Exposure - Primary Dermal Irritation
        GUIDELINE: 870.2500
           Acute Dermal Irritation
        CONTENT CATEGORY: 43
        TEST ORGANISM: Laboratory Mammals - Multiple or Unspecified
46876600 Management Contract Services, Inc. (2006) Submission of Product Che
        mistry Data in Support of the Applications for Registration of Z112
        -009, Z112-010, Z112-011, and Z112-012. Transmittal of 1 Study.
        Trade Secret Status: Document Contains CBI
        Submitter: MANAGEMENT CONTRACT SERVICES, INC.
        Submitter No. Submission Date Accession No.
           063823
                        06/28/06
                                       468766 00
         Administrative No: 063823-55
                            063823-56
                            063823-57
                            063823-58
         NO laboratory records for MRID: 46876600
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 05
            Product/Manufacturing Chemistry & Analysis
         CONTENT CATEGORY: Transmittal Documents
46876601 Bradbury, R. (2005) HPLC Method for Analysis of S-Methoprene. Proj
         ect Number: 111505. Unpublished study prepared by EcoSafe Natural
         Products Inc. 14 p.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                        06/28/06
                                        468766 01
         Administrative No: 063823-55
                            063823-56
                            063823-57
                            063823-58
          Laboratory No.: 063823
                                   MANAGEMENT CONTRACT SERVICES, INC.
                           081984
                                   ECOSAFE NATURAL PRODUCTS INC.
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Lab Project No.: 111505
        *** Chemistry Indexing ***
                                        FORMULATION: Not Formulated Pesticide
        SUBSTANCE CLASS: Single
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 052025
           Product Mfg - Analysis & Certification of Product Ingreds
        CONTENT CATEGORY: Analytical Method
46996500 Management Contract Services, Inc. (2006) Submission of Product Che
        mistry and Efficacy Data in Support of the Application for Registra
        tion of Z112-009. Transmittal of 9 Studies.
        Trade Secret Status: Document Contains CBI
        Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                         12/01/06 469965 00
         Administrative No: 063823-55
         NO laboratory records for MRID: 46996500
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            Bacillus thuringiensis subsp. israelensis (6401)
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            Temephos (59001)
                                        FORMULATION: Not Formulated Pesticide
         SUBSTANCE CLASS: Single
            Methoprene (105401)
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            Pyriproxyfen (129032)
         *** Subject Indexing ***
         ROOT DT: 05
            Product/Manufacturing Chemistry & Analysis
          CONTENT CATEGORY: Transmittal Documents
          ROOT DT: 10
             Pesticide Use
          CONTENT CATEGORY: Transmittal Documents
 46996501 Bradbury, R. (2006) Addendum to the Report: Product Identity and Co
          mposition of Z112-009. Project Number: 051107/5/B. Unpublished st
          udy prepared by EcoSafe Natural Products Inc. 21 p.
          Trade Secret Status: CBI Document, Confidential A
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
             063823
                         12/01/06
                                          469965 01
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Administrative No: 063823-55

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Laboratory No.: 063823
                                  MANAGEMENT CONTRACT SERVICES, INC.
                        081984
                                  ECOSAFE NATURAL PRODUCTS INC.
                        083999
                                  QUEENSLAND HEALTH
        Lab Project No.: 051107/5/B
        *** Chemistry Indexing ***
        SUBSTANCE CLASS: Single
                                       FORMULATION: Not Formulated Pesticide
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 052010
           Product Mfg - Beginning Materials & Mfg Process
        GUIDELINE: 830.1620
           Description of Production Process
        CONTENT CATEGORY: Unattributed Secondary Report
46996502 Ritchie, S.; Broadsmith, G. (1997) Efficacy of Altosid Pellets and
        Granules Against Aedes Aegypti in Ornamental Bromeliads. Journal o
        f the American Mosquito Control Association 13(2):201-202.
        Trade Secret Status: Document Contains CBI
        Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
           063823
                   12/01/06
                                       469965 02
         Administrative No: 063823-55
         NO laboratory records for MRID: 46996502
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 1005
            Pesticide Use - Product Performance (Efficacy)
         GUIDELINE: 810.3400
            Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
         CONTENT CATEGORY: Secondary Report Attributed to Others
         DT SITE: WIDE AREA AND GENERAL INDOOR/OUTDOOR TREATMENTS (ALL/UNSPEC)
46996503 Nasci, R.; Wright, G.; Willis, F. (1994) Control of Aedes Albopictu
         s Larvae Using Time-Release Larvicide Formulations in Louisiana. J
         ournal of the American Mosquito Control Association 10(1):1-6.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                        12/01/06
                                        469965 03
          Administrative No: 063823-55
          Laboratory No.: 954206 MCNEESE STATE UNIVERSITY
                          956620 U.S. DEPT. OF HEALTH AND HUMAN SERVICES
          *** Chemistry Indexing ***
          SUBSTANCE CLASS: Single FORMULATION: Not Formulated Pesticide
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Bacillus thuringiensis subsp. israelensis (6401)
        SUBSTANCE CLASS: Single
                                       FORMULATION: Not Formulated Pesticide
           Temephos (59001)
        SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
           Methoprene (105401)
        *** Subject Indexing ***
        ROOT DT: 1005
           Pesticide Use - Product Performance (Efficacy)
        GUIDELINE: 810.3400
           Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
        CONTENT CATEGORY: Secondary Report Attributed to Others
        DT SITE: WIDE AREA AND GENERAL INDOOR/OUTDOOR TREATMENTS (ALL/UNSPEC)
        DT PEST: MOSQUITOES
46996504 Floore, T.; Rathburn, C.; Dukes, J.; et. al. (1991) Control of Aede
         s Taeniorhynchus and Culex Quinquefasciatus Emergence with Sustaine
         d Release Altosid Sand Granules and Pellets in Saltwater and Freshw
         ater Test Plots. Journal of the American Mosquito Control Associat
         ion 7(3):405-408.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                        12/01/06
                                        469965 04
         Administrative No: 063823-55
         Laboratory No.: 957637
                                  JOHN MULRENNAN SR., RESEARCH LAB.
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 1005
            Pesticide Use - Product Performance (Efficacy)
         GUIDELINE: 810.3400
            Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
         CONTENT CATEGORY: Secondary Report Attributed to Others
         DT SITE: SALT WATER SITES
         DT PEST: MOSQUITOES
 46996505 Kline, D. (1993) Small Plot Evaluation of a Sustained-Release Sand
         Granule Formulation of Methoprene (SAN 810 I 1.3 GR) for Control of
          Aedes Taeniorhynchus. Journal of the American Mosquito Control As
          sociation 9(2):155-157.
          Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
             063823
                         12/01/06
                                         469965 05
          Administrative No: 063823-55
          Laboratory No.: 956639
                                   U.S. DEPT. OF AGRICULTURE, AGR. RES. SERV.
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*** Chemistry Indexing ***

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SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
           Methoprene (105401)
        *** Subject Indexing ***
        ROOT DT: 1005
           Pesticide Use - Product Performance (Efficacy)
        GUIDELINE: 810.3400
           Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
        CONTENT CATEGORY: Secondary Report Attributed to Others
        DT SITE: WIDE AREA AND GENERAL INDOOR/OUTDOOR TREATMENTS (ALL/UNSPEC)
46996506 Vorgetts, J.; Slavin, P. (19??) Field Testing of Altosid in Cumberl
        and County for Aedes Sollicitans. New Jersey Mosquito Exterminatio
         n Association, Proceedings of Sixty-Third Annual Meeting. p. 199-2
         02.
         Trade Secret Status: Document Contains CRT
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                         12/01/06
                                        469965 06
         Administrative No: 063823-55
         Laboratory No.: 955063 NORTH CAROLINA STATE UNIVERSITY
         *** Chemistry Indexing ***
                                         FORMULATION: Not Formulated Pesticide
         SUBSTANCE CLASS: Single
            Methoprene (105401)
         *** Subject Indexing ***
         ROOT DT: 1005
            Pesticide Use - Product Performance (Efficacy)
         GUIDELINE: 810.3400
            Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
         CONTENT CATEGORY: Secondary Report Attributed to Others
         DT SITE: WIDE AREA AND GENERAL INDOOR/OUTDOOR TREATMENTS (ALL/UNSPEC)
         DT PEST: MOSQUITOES
 46996507 Nayar, J.; Ali, A.; Zaim, M. (2002) Effectiveness and Residual Acti
          vity Comparison of Granular Formulations of Insect Growth Regulator
          s Pyriproxyfen and S-Methoprene Against Florida Mosquitoes in Labor
          atory and Outdoor Conditions. Journal of the American Mosquito Con
          trol Association 18(3):196-201.
          Trade Secret Status: Document Contains CRT
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
             063823 12/01/06 469965 07
          Administrative No: 063823-55
          Laboratory No.: 955691 UNIVERSITY OF FLORIDA, CENTRAL FLORIDA
                           958099 UNIVERSITY OF FLORIDA
                           958443 WORLD HEALTH ORGANIZATION
          *** Chemistry Indexing ***
          SUBSTANCE CLASS: Single
                                          FORMULATION: Not Formulated Pesticide
             2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
               thyl ester, (2E, 4E, 7S)-, (105402)
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FORMULATION: Not Formulated Pesticide

SUBSTANCE CLASS: Single

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Pyriproxyfen (129032)
        *** Subject Indexing ***
        ROOT DT: 1005
           Pesticide Use - Product Performance (Efficacy)
        GUIDELINE: 810.3400
           Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
        CONTENT CATEGORY: Secondary Report Attributed to Others
        DT SITE: HOUSEHOLD OR DOMESTIC DWELLINGS (ALL OR UNSPECIFIED)
        DT PEST: MOSQUITOES
46996508 Ali, A. (1991) Activity of New Formulations of Methoprene Against M
        idges (Diptera: Chironomidae) in Experimental Ponds. Journal of th
        e American Mosquito Control Association 7(4):616-620.
        Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                    12/01/06
                                      469965 08
         Administrative No: 063823-55
         Laboratory No.: 969833
                                   UNIVERSITY OF FLORIDA
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            Methoprene (105401)
         *** Subject Indexing ***
         ROOT DT: 1005
            Pesticide Use - Product Performance (Efficacy)
         GUIDELINE: 810.3400
            Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
         CONTENT CATEGORY: Secondary Report Attributed to Others
         DT SITE: WIDE AREA AND GENERAL INDOOR/OUTDOOR TREATMENTS (ALL/UNSPEC)
46996509 Ross, D.; Judy, D.; Jacobson, B.; et. al. (1994) Methoprene Concent
         rations in Freshwater Microcosms Treated with Sustained-Release Alt
         osid Formulations. Journal of the American Mosquito Control Associ
         ation 10(2):202-210.
         Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
            063823
                        12/01/06 469965 09
          Administrative No: 063823-55
          Laboratory No.: 056245 ZOECON INDUSTRIAL PRODUCTS
                          959968 ABC LABORATORIES, INC.
                          969798 UNIVERSITY OF MISSISSIPPI
          *** Chemistry Indexing ***
          SUBSTANCE CLASS: Single FORMULATION: Not Formulated Pesticide
             2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
               thyl ester, (2E, 4E, 7S)-, (105402)
          *** Subject Indexing ***
          ROOT DT: 1005
             Pesticide Use - Product Performance (Efficacy)
```

GUIDELINE: 810.3400

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Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
        CONTENT CATEGORY: Secondary Report Attributed to Others
        DT SITE: WIDE AREA AND GENERAL INDOOR/OUTDOOR TREATMENTS (ALL/UNSPEC)
47164300 Management Contract Services, Inc. (2007) Submission of Efficacy Da
         ta in Support of the Application for Registration of Z112-009. Tra
        nsmittal of 1 Study.
        Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                       06/27/07
                                       471643 00
         Administrative No: 063823-55
         NO laboratory records for MRID: 47164300
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 10
            Pesticide Use
         CONTENT CATEGORY: Transmittal Documents
47164301 Bradbury, R. (2007) Laboratory Efficacy Evaluation of Z112-009. Pr
         oject Number: BA/R0058. Unpublished study prepared by EcoSafe Natu
         ral Products Inc. 14 p.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                          06/27/07
                                        471643 01
         Administrative No: 063823-55
         Laboratory No.: 081984
                                    ECOSAFE NATURAL PRODUCTS INC.
         Lab Project No.: BA/R0058
          *** Chemistry Indexing ***
          SUBSTANCE CLASS: Single
                                          FORMULATION: Not Formulated Pesticide
             2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
               thyl ester, (2E, 4E, 7S)-, (105402)
          *** Subject Indexing ***
          ROOT DT: 1005
             Pesticide Use - Product Performance (Efficacy)
          GUIDELINE: 810.3400
             Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
          DT SITE: WIDE AREA AND GENERAL INDOOR/OUTDOOR TREATMENTS (ALL/UNSPEC)
          ROOT DT: 1005
             Pesticide Use - Product Performance (Efficacy)
          GUIDELINE: 95-10
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CONTENT CATEGORY: Complete Primary Report -- Experimental Research
DT SITE: WIDE AREA AND GENERAL INDOOR/OUTDOOR TREATMENTS (ALL/UNSPEC)

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47225700 Management Contract Services, Inc. (2007) Submission of Product Che
        mistry and Efficacy Data in Support of the Registration of Z112-009
         . Transmittal of 3 Studies.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                        09/07/07 472257 00
         Administrative No: 063823-55
         NO laboratory records for MRID: 47225700
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 05
            Product/Manufacturing Chemistry & Analysis
         CONTENT CATEGORY: Transmittal Documents
         ROOT DT: 10
            Pesticide Use
         CONTENT CATEGORY: Transmittal Documents
 47225701 Management Contract Services, Inc. (2007) Addendum to the Report:
         Product Identity and Composition of Z112-009 . Project Number: 051
         107/4/C. Unpublished study. 12 p.
         Trade Secret Status: CBI Document, Confidential A
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
             063823
                         09/07/07
                                        472257 01
          Administrative No: 063823-55
          Laboratory No.: 063823
                                   MANAGEMENT CONTRACT SERVICES, INC.
          Lab Project No.: 051107/4/C
          *** Chemistry Indexing ***
          SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
             2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
               thyl ester, (2E, 4E, 7S)-, (105402)
          *** Subject Indexing ***
          ROOT DT: 050515
             Physical/Chemical - Flammability
          GUIDELINE: 830.6315
             Flammability
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
          ROOT DT: 050516
             Physical/Chemical - Explodability
          GUIDELINE: 830.6316
             Explodability
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
          ROOT DT: 050519
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Physical/Chemical - Miscibility
        GUIDELINE: 830.6319
           Miscibility
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 050521
           Physical/Chemical - Dielectric Breakdown Voltage
        GUIDELINE: 830.6321
           Dielectric Breakdown Voltage
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 052010
           Product Mfg - Beginning Materials & Mfg Process
        GUIDELINE: 830.1620
           Description of Production Process
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 052020
           Product Mfg - Formation of Unintentional Ingred/Impurities
        GUIDELINE: 830.1670
           Discussion of Formation of Impurities
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
         ROOT DT: 0530
            Composition of Pesticide Products
         GUIDELINE: 830.1550
            Product Identity and Composition
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
47225702 Management Contract Services, Inc. (2007) Addendum to the Report: L
         aboratory Efficacy Evaluation of Z112-009 Formulation BA-014. Proj
         ect Number: BA/014/1. Unpublished stud.. 8 p.
         Trade Secret Status: CBI Document, Confidential A
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
                                        472257 02
            063823
                         09/07/07
         Administrative No: 063823-55
         Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
         Lab Project No.: BA/014/1
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 1005
            Pesticide Use - Product Performance (Efficacy)
          GUIDELINE: 810.3400
            Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
          DT SITE: HOUSEHOLD OR DOMESTIC DWELLINGS (ALL OR UNSPECIFIED)
          DT PEST: MOSQUITOES
 47225703 Management Contract Services, Inc. (2007) Addendum to the Report: L
          aboratory Efficacy Evaluation of Z112-009 BA-R0058. Project Number
          : BA/ROO58/1. Unpublished study. 6 p.
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Trade Secret Status: CBI Document, Confidential A
       Submitter: MANAGEMENT CONTRACT SERVICES, INC.
        Submitter No. Submission Date Accession No.
                        09/07/07
                                       472257 03
        Administrative No: 063823-55
        Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
        Lab Project No.: BA/R0058/1
        *** Chemistry Indexing ***
        SUBSTANCE CLASS: Single
                                       FORMULATION: Not Formulated Pesticide
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 0535
           Composition of Test Materials
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
47454000 Management Contract Services, Inc. (2008) Submission of Efficacy Da
        ta in Support of the Application for Registration of Z112-009. Tra
        nsmittal of 2 Studies.
        Trade Secret Status: Document Contains CBI
        Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
           063823
                        06/23/08
                                       474540 00
         Administrative No: 063823-55
         NO laboratory records for MRID: 47454000
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 10
            Pesticide Use
         CONTENT CATEGORY: Transmittal Documents
47454001 Akstins, E.; Coon, B. (2008) Efficacy Evaluation of Z112-009 1.5% G
         ranule Formulation against Aeded aegypti. Project Number: BA/R0101
          . Unpublished study prepared by Management Contract Services, Inc.
           14 p.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
            063823
                          06/23/08
                                        474540 01
                                                                                            Administrative No: 063823-55
          Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
          Lab Project No.: BA/R0101
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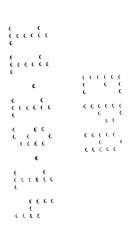
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*** Chemistry Indexing ***
                                        FORMULATION: Not Formulated Pesticide
        SUBSTANCE CLASS: Single
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 1005
           Pesticide Use - Product Performance (Efficacy)
        GUIDELINE: 95-10
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        DT SITE: HOUSEHOLD OR DOMESTIC DWELLINGS (INDOOR) (ALL OR UNSPEC)
47454002 Akstins, E.; Coon, B. (2008) Efficacy Evaluation of Z112-009 1.5% G
         ranule Formulation against Culex quinquefasciatus. Project Number:
         BA/R00102. Unpublished study prepared by Management Contract Serv
         ices, Inc. 14 p.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                        06/23/08
                                        474540 02
         Administrative No: 063823-55
         Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
         Lab Project No.: BA/R00102
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 1005
            Pesticide Use - Product Performance (Efficacy)
         GUIDELINE: 95-10
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
         DT SITE: HOUSEHOLD OR DOMESTIC DWELLINGS (INDOOR) (ALL OR UNSPEC)
 47688500 Management Contract Services, Inc. (2009) Submission of Product Che
         mistry Data in Support of the Application for Registration of Z112-
          009. Transmittal of 1 Study.
          Trade Secret Status: Document Contains CBT
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
             063823 02/26/09 476885 00
          Administrative No: 063823-55
          NO laboratory records for MRID: 47688500
          *** Chemistry Indexing ***
          SUBSTANCE CLASS: Single
                                          FORMULATION: Not Formulated Pesticide
                                                                                             زدددد
             2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
                                                                                               € € € €
               thyl ester, (2E, 4E, 7S)-, (105402)
          *** Subject Indexing ***
          ROOT DT: 05
             Product/Manufacturing Chemistry & Analysis
```

```
CONTENT CATEGORY: Transmittal Documents
47688501 Wo, C. (2007) Z112-009: Storage Stability and Corrosion Characteris
        tics. Project Number: 20261, P800. Unpublished study prepared by
         Product Safety Laboratories. 26 p.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
                                          476885 01
            063823
                          02/26/09
         Administrative No: 063823-55
         Laboratory No.: 081984
                                    ECOSAFE NATURAL PRODUCTS INC.
                          954614
                                    PRODUCT SAFETY LABORATORIES
                                              P800
         Lab Project No.: 20261
         *** Chemistry Indexing ***
                                         FORMULATION: Not Formulated Pesticide
         SUBSTANCE CLASS: Single
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 050520
             Physical/Chemical - Corrosion Characteristics
          GUIDELINE: 830,6320
             Corrosion Characteristics
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
          ROOT DT: 0525
             Storage Stability/Shelf Life
          GUIDELINE: 830.6317
             Storage Stability
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
 *** END OF OUTPUT ***
```

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APPENDIX B - Z112-010 - EPA REGISTRATION NO. 63823-56



63823-56

My NPIRS

Searches

Meetings

Resources

Contacts

Citation, Submitter, Laboratory, Chemistry and Subject

Date of Search: 11/13/14 Time of Search: 15:48

Last Search: PRODUCT DATABASE - EPA REGISTRATION NUMBERS

Number of Citations Selected: 27

46876400 Management Contract Services, Inc. (2006) Submission of Product Che mistry, Toxicity and Efficacy Data in Support of the Application fo r Registration of Z112-010. Transmittal of 5 Studies.

Trade Secret Status: Document Contains CBI

Submitter: MANAGEMENT CONTRACT SERVICES, INC.
Submitter No. Submission Date Accession No.
063823 06/28/06 468764 00

Administrative No: 063823-56

NO laboratory records for MRID: 46876400

*** Chemistry Indexing ***

SUBSTANCE CLASS: Single FORMULATION: Not Formulated Pesticide

2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
thyl ester, (2E, 4E, 7S)-, (105402)

*** Subject Indexing ***

ROOT DT: 05

Product/Manufacturing Chemistry & Analysis CONTENT CATEGORY: Transmittal Documents

ROOT DT: 10 Pesticide Use

CONTENT CATEGORY: Transmittal Documents

ROOT DT: 40

Pesticide Effects on Non-target Animals (Including Man) CONTENT CATEGORY: Transmittal Documents

46876401 Bradbury, R. (2005) Product Identity and Composition of Z112-010: Z 112/010. Project Number: 051107/5. Unpublished study prepared by EcoSafe Natural Products Inc. 51 p.

Trade Secret Status: CBI Document, Confidential A

Submitter: MANAGEMENT CONTRACT SERVICES, INC.
Submitter No. Submission Date Accession No.
063823 06/28/06 468764 01

Administrative No: 063823-56

Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC. 081984 ECOSAFE NATURAL PRODUCTS INC.

```
Lab Project No.: 051107/5
       *** Chemistry Indexing ***
       SUBSTANCE CLASS: Single
                                       FORMULATION: Not Formulated Pesticide
          2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
            thyl ester, (2E, 4E, 7S)-, (105402)
       *** Subject Indexing ***
       ROOT DT: 052010
           Product Mfg - Beginning Materials & Mfg Process
       GUIDELINE: 830.1600
           Description of Materials Used to Produce the Product
        CONTENT CATEGORY: Secondary Report Attributed to Others
        ROOT DT: 052010
           Product Mfg - Beginning Materials & Mfg Process
        GUIDELINE: 830.1650
           Description of Formulation Process
        CONTENT CATEGORY: Secondary Report Attributed to Others
        ROOT DT: 052020
           Product Mfg - Formation of Unintentional Ingred/Impurities
        GUIDELINE: 830.1670
           Discussion of Formation of Impurities
        CONTENT CATEGORY: Secondary Report Attributed to Others
        ROOT DT: 05202504
           Product Mfg - Certification of Limits
        GUIDELINE: 830.1750
           Certified Limits
        CONTENT CATEGORY: Secondary Report Attributed to Others
        ROOT DT: 0530
           Composition of Pesticide Products
        GUIDELINE: 830.1550
            Product Identity and Composition
        CONTENT CATEGORY: Secondary Report Attributed to Others
46876402 Wo, C. (2006) Physical and Chemical Characteristics: Color, Physica
         1 State, Odor, and Bulk Density: Z112/010. Project Number: 18832,
         P801. Unpublished study prepared by Product Safety Laboratories.
         12 p.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                        06/28/06
                                         468764 02
         Administrative No: 063823-56
         Laboratory No.: 954614 PRODUCT SAFETY LABORATORIES
         Lab Project No.: 18832
                                              P801
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 050502
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Physical/Chemical - Color
        GUIDELINE: 830.6302
        CONTENT CATEGORY: Secondary Report Attributed to Others
        ROOT DT: 050503
           Physical/Chemical - Physical State
        GUIDELINE: 830.6303
           Physical State
        CONTENT CATEGORY: Secondary Report Attributed to Others
        ROOT DT: 050504
           Physical/Chemical - Odor
        GUIDELINE: 830.6304
           Odor
        CONTENT CATEGORY: Secondary Report Attributed to Others
        ROOT DT: 050507
           Physical/Chemical - Density or Gravity
        GUIDELINE: 830.7300
           Density/Relative Density/Bulk Density
        CONTENT CATEGORY: Secondary Report Attributed to Others
46876403 Moore, G. (2006) Primary Eye Irritation Study in Rabbits: Z112/010.
          Project Number: 18833, P324. Unpublished study prepared by Produ
        ct Safety Laboratories. 15 p.
        Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                         06/28/06
                                       468764 03
         Administrative No: 063823-56
         Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
                          954614 PRODUCT SAFETY LABORATORIES
         Lab Project No.: 18833
                                              P324
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                       FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 40050540
            Acute Exposure - Primary Eye Irritation
         GUIDELINE: 870.2400
            Acute Eye Irritation
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
         TEST ORGANISM: Laboratory Mammals - Rabbit
46876404 Bradbury, R. (2006) Laboratory Efficacy Evaluation of Z112-010 Form
         ulation. Project Number: BA/015. Unpublished study prepared by Ec
         oSafe Natural Products Inc.. 9 p.
         Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
                          06/28/06
                                     468764 04
```

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Administrative No: 063823-56
       Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
                        081984 ECOSAFE NATURAL PRODUCTS INC.
       Lab Project No.: BA/015
        *** Chemistry Indexing ***
        SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 1005
           Pesticide Use - Product Performance (Efficacy)
        GUIDELINE: 95-10
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        DT SITE: WIDE AREA AND GENERAL INDOOR/OUTDOOR TREATMENTS (ALL/UNSPEC)
46876405 Galloway, P. (2006) Request for Waiver: Product: Z112-010. Project
         Number: Z112010/1. Unpublished study prepared by Management Contr
        act Services, Inc. 14 p.
        Trade Secret Status: Document Contains CBI
        Submitter: MANAGEMENT CONTRACT SERVICES, INC.
        Submitter No. Submission Date Accession No.
           063823
                       06/28/06
                                        468764 05
        Administrative No: 063823-56
        Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
         Lab Project No.: Z112010/1
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 050514
            Physical/Chemical - Oxidizing or Reducing Action
         GUIDELINE: 830.6314
            Oxidation/Reduction Chemical Incompatability
         CONTENT CATEGORY: 43
         ROOT DT: 40050505
            Acute Exposure - Oral
         GUIDELINE: 870.1100
            Acute Oral Toxicity
         CONTENT CATEGORY: 43
         TEST ORGANISM: Laboratory Mammals - Multiple or Unspecified
         ROOT DT: 40050510
            Acute Exposure - Dermal
         GUIDELINE: 870.1200
            Acute Dermal Toxicity
         CONTENT CATEGORY: 43
         TEST ORGANISM: Laboratory Mammals - Multiple or Unspecified
          ROOT DT: 40050515
             Acute Exposure - Respiratory/Inhalation
```

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GUIDELINE: 870.1300
           Acute Inhalation Toxicity
        CONTENT CATEGORY: 43
        TEST ORGANISM: Laboratory Mammals - Multiple or Unspecified
        ROOT DT: 40050535
           Acute Exposure - Primary Dermal Irritation
        GUIDELINE: 870.2500
           Acute Dermal Irritation
        CONTENT CATEGORY: 43
        TEST ORGANISM: Laboratory Mammals - Multiple or Unspecified
        ROOT DT: 40051020
           Subacute or Subchronic Exposure - Dermal Sensitization
        GUIDELINE: 870.2600
           Skin Sensitization
        CONTENT CATEGORY: 43
        TEST ORGANISM: Laboratory Mammals - Multiple or Unspecified
46876600 Management Contract Services, Inc. (2006) Submission of Product Che
        mistry Data in Support of the Applications for Registration of Z112
         -009, Z112-010, Z112-011, and Z112-012. Transmittal of 1 Study.
        Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                        06/28/06 468766 00
         Administrative No: 063823-55
                            063823-56
                            063823-57
                            063823-58
         NO laboratory records for MRID: 46876600
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 05
            Product/Manufacturing Chemistry & Analysis
         CONTENT CATEGORY: Transmittal Documents
46876601 Bradbury, R. (2005) HPLC Method for Analysis of S-Methoprene. Proj
         ect Number: 111505. Unpublished study prepared by EcoSafe Natural
         Products Inc. 14 p.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
             063823
                         06/28/06
                                         468766 01
          Administrative No: 063823-55
                            063823-56
                             063823-57
                             063823-58
          Laboratory No.: 063823
                                   MANAGEMENT CONTRACT SERVICES, INC.
                           081984
                                   ECOSAFE NATURAL PRODUCTS INC.
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Lab Project No.: 111505
        *** Chemistry Indexing ***
        SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 052025
           Product Mfg - Analysis & Certification of Product Ingreds
         CONTENT CATEGORY: Analytical Method
46996300 Management Contract Services, Inc. (2006) Submission of Product Che
        mistry and Efficacy Data in Support of the Application for Registra
         tion of Z112-010. Transmittal of 12 Studies.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
                         12/01/06
                                        469963 00
         Administrative No: 063823-56
         NO laboratory records for MRID: 46996300
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            Bacillus thuringiensis subsp. israelensis (6401)
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            Temephos (59001)
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            Methoprene (105401)
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
          *** Subject Indexing ***
          ROOT DT: 05
            Product/Manufacturing Chemistry & Analysis
          CONTENT CATEGORY: Transmittal Documents
          ROOT DT: 10
             Pesticide Use
          CONTENT CATEGORY: Transmittal Documents
 46996301 Bradbury, R. (2006) Addendum to the Report: Product Identity and Co
          mposition of Z112-010. Project Number: 051107/5/A. Unpublished st
          udy prepared by EcoSafe Natural Products Inc. 10 p.
          Trade Secret Status: CBI Document, Confidential A
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
             063823
                         12/01/06
                                          469963 01
          Administrative No: 063823-56
          Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
```

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081984
                                   ECOSAFE NATURAL PRODUCTS INC.
        Lab Project No.: 051107/5/A
        *** Chemistry Indexing ***
        SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 052010
           Product Mfg - Beginning Materials & Mfg Process
        GUIDELINE: 830.1650
           Description of Formulation Process
         CONTENT CATEGORY: Unattributed Secondary Report
         ROOT DT: 0530
           Composition of Pesticide Products
         GUIDELINE: 830.1550
            Product Identity and Composition
         CONTENT CATEGORY: Unattributed Secondary Report
46996302 Kramer, V.; Beesley, C. (1991) Efficacy and Persistence of Sustaine
         d-Release Methoprene Pellets Against Aedes Mosquitoes in an Irrigat
         ed Pasture. Journal of the American Mosquito Control Association 7
         (4):646-648.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                        12/01/06
                                        469963 02
         Administrative No: 063823-56
         Laboratory No.: 083998
                                   CONTRA COSTA MOSQUITO ABATEMENT DISTRICT
          *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
          *** Subject Indexing ***
          ROOT DT: 1005
             Pesticide Use - Product Performance (Efficacy)
          GUIDELINE: 810.3400
             Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
          CONTENT CATEGORY: Secondary Report Attributed to Others
          DT SITE: PASTURES (ALL OR UNSPECIFIED)
          DT PEST: MOSQUITOES
 46996303 Floore, T.; Rathburn, C.; Dukes, J.; et. al. (1991) Control of Aede
          s Taeniorhynchus and Culex Quinquefasciatus Emergence with Sustaine
          d Release Altosid Sand Granules and Pellets in Saltwater and Freshw
          ater Test Plots. Journal of the American Mosquito Control Associat
          ion 7(3):405-408.
          Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
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063823

Submitter No. Submission Date Accession No.

12/01/06

469963 03

```
Administrative No: 063823-56
        Laboratory No.: 957637
                                  JOHN MULRENNAN SR., RESEARCH LAB.
        *** Chemistry Indexing ***
        SUBSTANCE CLASS: Single
                                       FORMULATION: Not Formulated Pesticide
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 1005
           Pesticide Use - Product Performance (Efficacy)
        GUIDELINE: 810.3400
           Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
        CONTENT CATEGORY: Secondary Report Attributed to Others
        DT SITE: LAKES, PONDS, & IMPOUNDED WATER (WITH HUMAN OR WILDLIFE USE)
46996304 Floore, T.; Rathburn, C.; Boike, A.; et. al. (1990) Small Plot Test
         of Sustained-Release Altosid (Methoprene) Pellets Against Aedes Ta
         eniorhynchus in Brackish Water. Journal of the American Mosquito C
        ontrol Association 6(1):133-134.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                    12/01/06 469963 04
         Administrative No: 063823-56
         Laboratory No.: 957637 JOHN MULRENNAN SR., RESEARCH LAB.
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 1005
            Pesticide Use - Product Performance (Efficacy)
         GUIDELINE: 810.3400
            Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
         CONTENT CATEGORY: Secondary Report Attributed to Others
         DT SITE: LAKES, PONDS, & IMPOUNDED WATER (WITH HUMAN OR WILDLIFE USE)
46996305 Braga, I.; Mello, C.; Peixoto, A.; et. al. (2005) Evaluation of Met
         hoprene Effect of Aedes Aegypti (Diptera: Culicidae) Development in
          Laboratory Conditions. Mem. Inst. Oswaldo Cruz 100(4):435-440.
         Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
            063823
                    12/01/06
                                        469963 05
          Administrative No: 063823-56
          NO laboratory records for MRID: 46996305
          *** Chemistry Indexing ***
                                         FORMULATION: Not Formulated Pesticide
          SUBSTANCE CLASS: Single
             2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
               thyl ester, (2E, 4E, 7S)-, (105402)
```

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*** Subject Indexing ***
        ROOT DT: 1005
           Pesticide Use - Product Performance (Efficacy)
        GUIDELINE: 810.3400
           Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
        CONTENT CATEGORY: Secondary Report Attributed to Others
        DT SITE: HOUSEHOLD OR DOMESTIC DWELLINGS (ALL OR UNSPECIFIED)
        DT PEST: MOSQUITOES
46996306 Nasci, R.; Wright, G.; Willis, F. (1994) Control of Aedes Albopictu
         s Larvae using Time-Release Larvicide Formulations in Louisiana. J
         ournal of the American Mosquito Control Association 10(1):1-6.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                        12/01/06 469963 06
         Administrative No: 063823-56
         Laboratory No.: 954206 MCNEESE STATE UNIVERSITY
                          958139 CENTER FOR DISEASE CONTROL
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            Bacillus thuringiensis subsp. israelensis (6401)
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            Temephos (59001)
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            Methoprene (105401)
         *** Subject Indexing ***
         ROOT DT: 1005
            Pesticide Use - Product Performance (Efficacy)
         GUIDELINE: 810.3400
            Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
          CONTENT CATEGORY: Secondary Report Attributed to Others
          DT SITE: WIDE AREA AND GENERAL INDOOR/OUTDOOR TREATMENTS (ALL/UNSPEC)
          DT PEST: MOSQUITOES
 46996307 Butler, M.; Lebrun, R.; Ginsberg, H.; et. al. (2006) Efficacy of Me
          thoprene for Mosquito Control in Storm Water Catch Basins. Journal
          of the American Mosquito Control Association 22(2):333-338.
          Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
                         12/01/06
          Administrative No: 063823-56
          Laboratory No.: 969845 UNIVERSITY OF RHODE ISLAND
          *** Chemistry Indexing ***
          SUBSTANCE CLASS: Single
                                          FORMULATION: Not Formulated Pesticide
             2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
               thyl ester, (2E, 4E, 7S)-, (105402)
```

```
*** Subject Indexing ***
        ROOT DT: 1005
           Pesticide Use - Product Performance (Efficacy)
        GUIDELINE: 810.3400
           Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
        CONTENT CATEGORY: Secondary Report Attributed to Others
        DT SITE: HOUSEHOLD OR DOMESTIC DWELLINGS (ALL OR UNSPECIFIED)
        DT PEST: MOSQUITOES
46996308 Ranta, S.; Batzer, D.; Sharkey, K.; et. al. (1994) Efficacy of Meth
        oprene Pellets Against Coquillettidia Perturbans Larvae. Journal o
        f the American Mosquito Control Association 10(1):106-107.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
                        12/01/06
            063823
                                         469963 08
         Administrative No: 063823-56
         Laboratory No.: 064091
                                    METROPOLITAN MOSQUITO CONTROL DISTRICT
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 1005
            Pesticide Use - Product Performance (Efficacy)
         GUIDELINE: 810.3400
            Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
         CONTENT CATEGORY: Secondary Report Attributed to Others
         DT SITE: WIDE AREA AND GENERAL INDOOR/OUTDOOR TREATMENTS (ALL/UNSPEC)
         DT PEST: MOSQUITOES
46996309 Woodrow, R.; Howard, J.; White, D. (1995) Field Trials with Methopr
          ene, Temephos, and Bacillus Thuringiensis Serovar Israelensis for t
         he Control of Larval Culiseta Melanura. Journal of the American Mo
          squito Control Association 11(4):424-427.
          Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
             063823
                         12/01/06
                                          469963 09
          Administrative No: 063823-56
          Laboratory No.: 955247 STATE UNIVERSITY OF NEW YORK
                           955315 NEW YORK STATE DEPT. OF ENVIR. CONSERVATION
          *** Chemistry Indexing ***
          SUBSTANCE CLASS: Single
                                          FORMULATION: Not Formulated Pesticide
             Bacillus thuringiensis subsp. israelensis (6401)
                                          FORMULATION: Not Formulated Pesticide
          SUBSTANCE CLASS: Single
             Temephos (59001)
          SUBSTANCE CLASS: Single
                                          FORMULATION: Not Formulated Pesticide
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Methoprene (105401)

```
*** Subject Indexing ***
        ROOT DT: 1005
           Pesticide Use - Product Performance (Efficacy)
        GUIDELINE: 810.3400
           Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
        CONTENT CATEGORY: Secondary Report Attributed to Others
        DT SITE: WIDE AREA AND GENERAL INDOOR/OUTDOOR TREATMENTS (ALL/UNSPEC)
        DT PEST: MOSQUITOES
46996310 McCarry, M. (1996) Efficacy and Persistence of Altosid Pellets Agai
        nst Culex Species in Catch Basins in Michigan. Journal of the Amer
        ican Mosquito Control Association 12(1):144-146.
        Trade Secret Status: Document Contains CBI
        Submitter: MANAGEMENT CONTRACT SERVICES, INC.
        Submitter No. Submission Date Accession No.
            063823
                      12/01/06
                                         469963 10
         Administrative No: 063823-56
         Laboratory No.: 056570
                                   BAY COUNTY MOSQUITO CONTROL
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                       FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 1005
            Pesticide Use - Product Performance (Efficacy)
         GUIDELINE: 810.3400
            Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
         CONTENT CATEGORY: Secondary Report Attributed to Others
         DT SITE: WIDE AREA AND GENERAL INDOOR/OUTDOOR TREATMENTS (ALL/UNSPEC)
         DT PEST: MOSQUITOES
46996311 Logan, T.; Linthicum, K.; Wagateh, J.; et. al. (1990) Pretreatment
         of Floodwater Aedes Habitats (Dambos) in Kenya with a Sustained-Rel
         ease Formulation of Methoprene. Journal of the American Mosquito C
         ontrol Association 6(4):736-738.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                        12/01/06
                                          469963 11
         Administrative No: 063823-56
          Laboratory No.: 063120
                                    U.S. ARMY MEDICAL RESEARCH & MATERIEL CMD
          *** Chemistry Indexing ***
          SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
             Methoprene (105401)
          *** Subject Indexing ***
          ROOT DT: 1005
             Pesticide Use - Product Performance (Efficacy)
          GUIDELINE: 810.3400
             Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
          CONTENT CATEGORY: Secondary Report Attributed to Others
          DT SITE: WIDE AREA AND GENERAL INDOOR/OUTDOOR TREATMENTS (ALL/UNSPEC)
```

DT PEST: MOSQUITOES

46996312 Ross, D.; Judy, D.; Jacobson, B.; et. al. (1994) Methoprene Concent rations in Freshwater Microcosms Treated with Sustained-Release Alt osid Formulations. Journal of the American Mosquito Control Association 10(2):202-210.

Trade Secret Status: Document Contains CBI

Submitter: MANAGEMENT CONTRACT SERVICES, INC.
Submitter No. Submission Date Accession No.
063823 12/01/06 469963 12

Administrative No: 063823-56

Laboratory No.: 056245 ZOECON INDUSTRIAL PRODUCTS 959968 ABC LABORATORIES, INC.

969798 UNIVERSITY OF MISSISSIPPI

*** Chemistry Indexing ***

SUBSTANCE CLASS: Single FORMULATION: Not Formulated Pesticide 2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle thyl ester, (2E, 4E, 7S)-, (105402)

*** Subject Indexing ***

ROOT DT: 1005

Pesticide Use - Product Performance (Efficacy)

GUIDELINE: 810.3400

Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
CONTENT CATEGORY: Secondary Report Attributed to Others

DT SITE: WIDE AREA AND GENERAL INDOOR/OUTDOOR TREATMENTS (ALL/UNSPEC)

47164400 Management Contract Services, Inc. (2007) Submission of Efficacy Da ta in Support of the Application for Registration of Z112-010. Transmittal of 1 Study.

Trade Secret Status: Document Contains CBI

Submitter: MANAGEMENT CONTRACT SERVICES, INC.
Submitter No. Submission Date Accession No.
063823 06/27/07 471644 00

Administrative No: 063823-56

NO laboratory records for MRID: 47164400

*** Chemistry Indexing ***

SUBSTANCE CLASS: Single FORMULATION: Not Formulated Pesticide 2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle thyl ester, (2E, 4E, 7S)-, (105402)

*** Subject Indexing ***

ROOT DT: 10

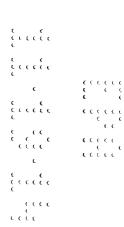
Pesticide Use

CONTENT CATEGORY: Transmittal Documents

47164401 Bradbury, B. (2007) Laboratory Efficacy Evaluation of Z112-010. Pr oject Number: BA/R0057. Unpublished study prepared by EcoSafe Natural Products, Inc. 13 p.

Trade Secret Status: Document Contains CBI

Submitter: MANAGEMENT CONTRACT SERVICES, INC.



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Submitter No. Submission Date Accession No.
          063823
                      06/27/07
                                      471644 01
        Administrative No: 063823-56
        Laboratory No.: 081984
                                 ECOSAFE NATURAL PRODUCTS INC.
        Lab Project No.: BA/R0057
        *** Chemistry Indexing ***
        SUBSTANCE CLASS: Single
                                       FORMULATION: Not Formulated Pesticide
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 1005
           Pesticide Use - Product Performance (Efficacy)
        GUIDELINE: 810.3400
           Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        DT SITE: WIDE AREA AND GENERAL INDOOR/OUTDOOR TREATMENTS (ALL/UNSPEC)
        ROOT DT: 1005
            Pesticide Use - Product Performance (Efficacy)
        GUTDELTNE: 95-10
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        DT SITE: WIDE AREA AND GENERAL INDOOR/OUTDOOR TREATMENTS (ALL/UNSPEC)
47465600 Management Contract Services, Inc. (2008) Submission of Product Che
        mistry Data in Support of the Registration of Z112-010. Transmitta
         1 of 1 Study.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                        07/02/08
                                       474656 00
         Administrative No: 063823-56
         NO laboratory records for MRID: 47465600
         *** Chemistry Indexing ***
                                        FORMULATION: Not Formulated Pesticide
         SUBSTANCE CLASS: Single
            Methoprene (105401)
         *** Subject Indexing ***
         ROOT DT: 05
            Product/Manufacturing Chemistry & Analysis
         CONTENT CATEGORY: Transmittal Documents
47465601 Wo, C. (2007) Storage Stability and Corrosion Characteristics: Z112
         -010. Project Number: P800, 20262, 060726/4R. Unpublished study p
         repared by Eurofins/Product Safety Laboratories. 26 p.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
             063823
                          07/02/08
                                         474656 01
          Administrative No: 063823-56
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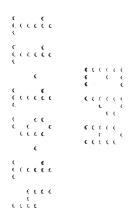
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Laboratory No.: 081984
                                  ECOSAFE NATURAL PRODUCTS INC.
                                  EUROFINS/PRODUCT SAFETY LABORATORIES
                         085020
        Lab Project No.: 060726/4R
                                             20262
                                                                P800
        *** Chemistry Indexing ***
        SUBSTANCE CLASS: Single
                                       FORMULATION: Not Formulated Pesticide
           Methoprene (105401)
        *** Subject Indexing ***
        ROOT DT: 050520
           Physical/Chemical - Corrosion Characteristics
        GUIDELINE: 830.6320
           Corrosion Characteristics
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 0525
           Storage Stability/Shelf Life
        GUIDELINE: 830.6317
            Storage Stability
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
47556100 Management Contract Services, Inc. (2008) Submission of Product Che
         mistry Data in Support of the Registration of Z112-010. Transmitta
         1 of 1 Study.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                        10/01/08 475561 00
         Administrative No: 063823-56
         NO laboratory records for MRID: 47556100
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 05
            Product/Manufacturing Chemistry & Analysis
         CONTENT CATEGORY: Transmittal Documents
 47556101 Wo, C. (2008) Z112-010: Storage Stability and Corrosion Characteris
         tics. Project Number: 20262, P800. Unpublished study prepared by
         Eurofins/Product Safety Laboratories. 30 p.
          Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
             063823
                         10/01/08
                                         475561 01
          Administrative No: 063823-56
          Laboratory No.: 081984
                                  ECOSAFE NATURAL PRODUCTS INC.
                           085020
                                   EUROFINS/PRODUCT SAFETY LABORATORIES
          Lab Project No.: 20262
                                               P800
```

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*** Chemistry Indexing ***
        SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 050520
           Physical/Chemical - Corrosion Characteristics
        GUIDELINE: 830.6320
           Corrosion Characteristics
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 0525
           Storage Stability/Shelf Life
        GUIDELINE: 830.6317
           Storage Stability
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
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APPENDIX C - Z112-011 - EPA REGISTRATION NO. 63823-57



63823-51

My NPIRS

Searches

Meetings F

Resources

Contacts

Citation, Submitter, Laboratory, Chemistry and Subject

Date of Search: 11/13/14 Time of Search: 15:49

Last Search: PRODUCT DATABASE - EPA REGISTRATION NUMBERS

Number of Citations Selected: 42

46876600 Management Contract Services, Inc. (2006) Submission of Product Che mistry Data in Support of the Applications for Registration of Z112 -009, Z112-010, Z112-011, and Z112-012. Transmittal of 1 Study.

Trade Secret Status: Document Contains CBI

Submitter: MANAGEMENT CONTRACT SERVICES, INC. Submitter No. Submission Date Accession No. 063823 06/28/06 468766 00

Administrative No: 063823-55 063823-56

063823-57 063823-58

NO laboratory records for MRID: 46876600

*** Chemistry Indexing ***

SUBSTANCE CLASS: Single FORMULATION: Not Formulated Pesticide 2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle thyl ester, (2E, 4E, 7S)-, (105402)

*** Subject Indexing ***

ROOT DT: 05

Product/Manufacturing Chemistry & Analysis CONTENT CATEGORY: Transmittal Documents

46876601 Bradbury, R. (2005) HPLC Method for Analysis of S-Methoprene. Project Number: 111505. Unpublished study prepared by EcoSafe Natural Products Inc. 14 p.

Trade Secret Status: Document Contains CBI

Submitter: MANAGEMENT CONTRACT SERVICES, INC.
Submitter No. Submission Date Accession No.
063823 06/28/06 468766 01

Administrative No: 063823-55

063823-56 063823-57 063823-58

Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.

081984 ECOSAFE NATURAL PRODUCTS INC.

Lab Project No.: 111505

```
*** Chemistry Indexing ***
        SUBSTANCE CLASS: Single
                                       FORMULATION: Not Formulated Pesticide
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 052025
           Product Mfg - Analysis & Certification of Product Ingreds
        CONTENT CATEGORY: Analytical Method
46877100 Management Contract Services, Inc. (2005) Submission of Product Che
        mistry, Efficacy, and Toxicity Data in Support of the Application f
        or Registration of Z112-O11. Transmittal of 5 Studies.
        Trade Secret Status: Document Contains CBI
        Submitter: MANAGEMENT CONTRACT SERVICES, INC.
        Submitter No. Submission Date Accession No.
           063823
                       06/28/06
                                       468771 00
         Administrative No: 063823-57
         NO laboratory records for MRID: 46877100
         *** Chemistry Indexing ***
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            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 05
            Product/Manufacturing Chemistry & Analysis
         CONTENT CATEGORY: Transmittal Documents
         ROOT DT: 10
            Pesticide Use
         CONTENT CATEGORY: Transmittal Documents
         ROOT DT: 40
            Pesticide Effects on Non-target Animals (Including Man)
         CONTENT CATEGORY: Transmittal Documents
46877101 Bradbury, R. (2005) Product Identity and Composition of Z112-011.
         Project Number: 051107/3. Unpublished study prepared by EcoSafe Na
         tural Products Inc. 70 p.
         Trade Secret Status: CBI Document, Confidential A
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
            063823 06/28/06 468771 01
          Administrative No: 063823-57
          Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
                          081984 ECOSAFE NATURAL PRODUCTS INC.
          Lab Project No.: 051107/3
          *** Chemistry Indexing ***
          SUBSTANCE CLASS: Single FORMULATION: Not Formulated Pesticide
             2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
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thyl ester, (2E, 4E, 7S)-, (105402)
       *** Subject Indexing ***
       ROOT DT: 052010
          Product Mfg - Beginning Materials & Mfg Process
       GUIDELINE: 830.1600
          Description of Materials Used to Produce the Product
       CONTENT CATEGORY: Unattributed Secondary Report
       ROOT DT: 052010
           Product Mfg - Beginning Materials & Mfg Process
       GUIDELINE: 830.1620
           Description of Production Process
       CONTENT CATEGORY: Unattributed Secondary Report
        ROOT DT: 052010
           Product Mfg - Beginning Materials & Mfg Process
        GUIDELINE: 830.1650
           Description of Formulation Process
        CONTENT CATEGORY: Unattributed Secondary Report
        ROOT DT: 052020
           Product Mfg - Formation of Unintentional Ingred/Impurities
        GUIDELINE: 830.1670
           Discussion of Formation of Impurities
        CONTENT CATEGORY: Unattributed Secondary Report
        ROOT DT: 05202504
           Product Mfg - Certification of Limits
        GUIDELINE: 830.1750
           Certified Limits
        CONTENT CATEGORY: Unattributed Secondary Report
        ROOT DT: 0530
           Composition of Pesticide Products
        GUIDELINE: 830.1550
           Product Identity and Composition
        CONTENT CATEGORY: Unattributed Secondary Report
46877102 Wo, C. (2006) Physical and Chemical Characteristics: Color, Physica
        1 State, Odor and Density of Solids: Z112-011. Project Number: 188
        34, P801. Unpublished study prepared by Product Safety Laboratorie
        s. 12 p.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
                       06/28/06
                                         468771 02
         Administrative No: 063823-57
         Laboratory No.: 954614 PRODUCT SAFETY LABORATORIES
         Lab Project No.: 18834
                                              P801
         *** Chemistry Indexing ***
                                  FORMULATION: Not Formulated Pesticide
         SUBSTANCE CLASS: Single
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
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ROOT DT: 050502

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Physical/Chemical - Color
       GUIDELINE: 830.6302
           Color
        CONTENT CATEGORY: Unattributed Secondary Report
        ROOT DT: 050503
           Physical/Chemical - Physical State
        GUIDELINE: 830.6303
           Physical State
        CONTENT CATEGORY: Unattributed Secondary Report
        ROOT DT: 050504
           Physical/Chemical - Odor
        GUIDELINE: 830.6304
        CONTENT CATEGORY: Unattributed Secondary Report
        ROOT DT: 050507
           Physical/Chemical - Density or Gravity
        GUIDELINE: 830.7300
           Density/Relative Density/Bulk Density
        CONTENT CATEGORY: Unattributed Secondary Report
46877103 Moore, G. (2006) Primary Eye Irritation Study in Rabbits: Z112-011,
         P324. Project Number: 18835. Unpublished study prepared by Produ
        ct Safety Laboratories. 15 p.
        Trade Secret Status: Document Contains CBI
        Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
                         06/28/06
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         Administrative No: 063823-57
         Laboratory No.: 954614 PRODUCT SAFETY LABORATORIES
         Lab Project No.: 18835
                                              P324
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 40050540
            Acute Exposure - Primary Eye Irritation
         GUIDELINE: 870.2400
            Acute Eye Irritation
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
         TEST ORGANISM: Laboratory Mammals - Rabbit
46877104 Bradbury, R. (2006) Laboratory Efficacy Evaluation of Z112-011 Form
         ulation. Project Number: BA/016. Unpublished study prepared by Ec
         oSafe Natural Products Inc. 9 p.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                        06/28/06
                                         468771 04
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Administrative No: 063823-57

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Laboratory No.: 063823
                                  MANAGEMENT CONTRACT SERVICES, INC.
                         081984
                                  ECOSAFE NATURAL PRODUCTS INC.
        Lab Project No.: BA/016
        *** Chemistry Indexing ***
        SUBSTANCE CLASS: Single
                                       FORMULATION: Not Formulated Pesticide
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 1005
           Pesticide Use - Product Performance (Efficacy)
        GUIDELINE: 95-10
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        DT SITE: AQUATIC AREAS (ALL OR UNSPECIFIED)
        DT PEST: MOSQUITOES
46877105 Galloway, P. (2006) Request(s) for Waiver: Z112-011. Project Numbe
        r: Z112011/1. Unpublished study prepared by Management Contract Se
        rvices, Inc. 14 p.
        Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
                       06/28/06
                                       468771 05
            063823
         Administrative No: 063823-57
         Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
         Lab Project No.: Z112011/1
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 050514
            Physical/Chemical - Oxidizing or Reducing Action
         CONTENT CATEGORY: 43
         ROOT DT: 40050505
            Acute Exposure - Oral
         CONTENT CATEGORY: 43
         TEST ORGANISM: Laboratory Mammals - Multiple or Unspecified
         ROOT DT: 40050510
            Acute Exposure - Dermal
         CONTENT CATEGORY: 43
         TEST ORGANISM: Laboratory Mammals - Multiple or Unspecified
                                                                                                          ....
          ROOT DT: 40050515
             Acute Exposure - Respiratory/Inhalation
                                                                                             . . . . .
          CONTENT CATEGORY: 43
          TEST ORGANISM: Laboratory Mammals - Multiple or Unspecified
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          ROOT DT: 40050535
             Acute Exposure - Primary Dermal Irritation
          CONTENT CATEGORY: 43
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TEST ORGANISM: Laboratory Mammals - Multiple or Unspecified
        ROOT DT: 40051020
           Subacute or Subchronic Exposure - Dermal Sensitization
        CONTENT CATEGORY: 43
        TEST ORGANISM: Laboratory Mammals - Multiple or Unspecified
47014000 Management Contract Services, Inc. (2006) Submission of Efficacy Da
        ta in Support of the Application for Registration of Z112-011. Tra
         nsmittal of 5 Studies.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
                      12/27/06
            063823
                                       470140 00
         Administrative No: 063823-57
         NO laboratory records for MRID: 47014000
         *** Chemistry Indexing ***
                                        FORMULATION: Not Formulated Pesticide
         SUBSTANCE CLASS: Single
            Bacillus thuringiensis subsp. israelensis (6401)
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            Methoprene (105401)
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 10
            Pesticide Use
         CONTENT CATEGORY: Transmittal Documents
 47014001 Schmidt, R. (19??) Field Comparisons of Four Long-Duration Larvici
          de Formulations in Middlesex County, New Jersey. New Jersey Mosqui
          to Control Association, Inc., Proceedings of Seventy-Eighth Annual
          Meeting (78) 66-70.
          Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
             063823
                         12/27/06
                                          470140 01
          Administrative No: 063823-57
          Laboratory No.: 084040
                                     MIDDLESEX COUNTY MOSQUITO EXTERMINATION COMMISSION
          *** Chemistry Indexing ***
          SUBSTANCE CLASS: Single
                                          FORMULATION: Not Formulated Pesticide
             Bacillus thuringiensis subsp. israelensis (6401)
          SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
                                                                                              . . . . .
             Methoprene (105401)
                                                                                                ....
          *** Subject Indexing ***
                                                                                              ....
          ROOT DT: 1005
             Pesticide Use - Product Performance (Efficacy)
          GUIDELINE: 810.3400
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Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        DT SITE: WIDE AREA AND GENERAL INDOOR/OUTDOOR TREATMENTS (ALL/UNSPEC)
        DT PEST: MOSQUITOES
47014002 Knepper, R.; Leclair, A.; Strickler, J.; et. al. (1992) Evaluation
        of Methoprene (Altosid XR) Sustained-Release Briquets for Control o
         f Culex Mosquitoes in Urban Catch Basins. Journal of the American
        Mosquito Control Association 8(3):228-230.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
           063823
                    12/27/06 470140 02
         Administrative No: 063823-57
         Laboratory No.: 084041
                                    SAGINAW COUNTRY MOSQUITO ABATEMENT COMMISSION
                          969998
                                   MICHIGAN STATE UNIVERSITY
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            Methoprene (105401)
         *** Subject Indexing ***
         ROOT DT: 1005
            Pesticide Use - Product Performance (Efficacy)
         GUIDELINE: 810.3400
            Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
         CONTENT CATEGORY: Secondary Report Attributed to Others
         DT SITE: INTERMITTENTLY FLOODED AREAS
         DT PEST: MOSQUITOES
47014003 Rathburn Jr., C.; Boike Jr., A. (1977) The Efficacy of Preflood and
          Residual Applications of Two Formulations of Methoprene. Mosquito
          News 37(4):620-622.
          Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
            063823
                         12/27/06
                                          470140 03
          Administrative No: 063823-57
          Laboratory No.: 979958
                                   WEST FLORIDA ARTHROPOD RESEARCH LAB.
          *** Chemistry Indexing ***
          SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
             Methoprene (105401)
          *** Subject Indexing ***
          ROOT DT: 1005
             Pesticide Use - Product Performance (Efficacy)
          GUIDELINE: 810.3400
```

47014004 Weathersbee III, A.; Meisch, M. (1991) Long-Term Residual Activity of Methoprene Against Psorophora columbiae Larvae in Rice Plots. J

CONTENT CATEGORY: Secondary Report Attributed to Others

Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments

DT SITE: WIDE AREA AND GENERAL INDOOR/OUTDOOR TREATMENTS (ALL/UNSPEC)

DT PEST: MOSQUITOES

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ournal of the American Mosquito Control Association 7(4):592-594.
        Trade Secret Status: Document Contains CBI
        Submitter: MANAGEMENT CONTRACT SERVICES, INC.
        Submitter No. Submission Date Accession No.
           063823
                       12/27/06 470140 04
        Administrative No: 063823-57
        Laboratory No.: 958072 UNIVERSITY OF ARKANSAS
        *** Chemistry Indexing ***
        SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
           Methoprene (105401)
        *** Subject Indexing ***
        ROOT DT: 1005
           Pesticide Use - Product Performance (Efficacy)
        GUIDELINE: 810.3400
           Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
        CONTENT CATEGORY: Secondary Report Attributed to Others
        DT SITE: FIELD CROPS (ALL OR UNSPECIFIED)
        DT PEST: MOSQUITOES
47014005 Ross, D.; Judy, D.; Jacobson, B.; et. al. (1994) Methoprene Concent
         rations in Freshwater Microcosms Treated with Sustained-Release Alt
         osid Formulations. Journal of the American Mosquito Control Associ
         ation 10(2):202-210.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                        12/27/06
                                       470140 05
         Administrative No: 063823-57
         Laboratory No.: 056245 ZOECON INDUSTRIAL PRODUCTS
                          959968 ABC LABORATORIES, INC.
                          969798 UNIVERSITY OF MISSISSIPPI
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                       FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 1005
            Pesticide Use - Product Performance (Efficacy)
         GUIDELINE: 810.3400
            Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
         CONTENT CATEGORY: Secondary Report Attributed to Others
 47164700 Management Contract Services, Inc. (2007) Submission of Efficacy an
          d Product Chemistry Data in Support of the Application for Registra
          tion of Z112-011. Transmittal of 2 Studies.
          Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
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06/27/07 471647 00

063823

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Administrative No: 063823-57
        NO laboratory records for MRID: 47164700
        *** Chemistry Indexing ***
        SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 05
           Product/Manufacturing Chemistry & Analysis
        CONTENT CATEGORY: Transmittal Documents
        ROOT DT: 10
           Pesticide Use
        CONTENT CATEGORY: Transmittal Documents
47164701 Bradbury, R. (2007) Laboratory Efficacy Evaluation of Z112-011. Pr
        oject Number: BA/R0059. Unpublished study prepared by EcoSafe Natu
        ral Products Inc. 15 p.
        Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                         06/27/07
                                         471647 01
         Administrative No: 063823-57
         Laboratory No.: 081984
                                 ECOSAFE NATURAL PRODUCTS INC.
         Lab Project No.: BA/R0059
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 1005
            Pesticide Use - Product Performance (Efficacy)
         GUIDELINE: 810.3400
            Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
         DT SITE: UNSPECIFIED SITES (DISINFECTANTS ONLY)
         ROOT DT: 1005
            Pesticide Use - Product Performance (Efficacy)
         GUIDELINE: 95-10
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
         DT SITE: UNSPECIFIED SITES (DISINFECTANTS ONLY)
 47164702 Ulrich, J. (2007) Addendum to the Report: Product Identity and Comp
          osition of Z112-011. Project Number: Z112011/070601/1. Unpublishe
          d study prepared by Management Contract Services, Inc. 5 p.
          Trade Secret Status: Document Contains CBT
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
             063823
                        06/27/07 471647 02
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Administrative No: 063823-57
       Laboratory No.: 063823
                                  MANAGEMENT CONTRACT SERVICES, INC.
       Lab Project No.: Z112011/070601/1
       *** Chemistry Indexing ***
       SUBSTANCE CLASS: Single
                                       FORMULATION: Not Formulated Pesticide
          2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 050512
           Physical/Chemical - pH
        GUIDELINE: 830.7000
        CONTENT CATEGORY: Unattributed Secondary Report
        ROOT DT: 050515
           Physical/Chemical - Flammability
        GUIDELINE: 830.6315
           Flammability
        CONTENT CATEGORY: Unattributed Secondary Report
        ROOT DT: 050516
           Physical/Chemical - Explodability
        GUIDELINE: 830.6316
           Explodability
        CONTENT CATEGORY: Unattributed Secondary Report
        ROOT DT: 050519
           Physical/Chemical - Miscibility
        GUIDELINE: 830.6319
           Miscibility
        CONTENT CATEGORY: Unattributed Secondary Report
         ROOT DT: 050521
           Physical/Chemical - Dielectric Breakdown Voltage
         GUIDELINE: 830.6321
            Dielectric Breakdown Voltage
         CONTENT CATEGORY: Unattributed Secondary Report
47225800 Management Contract Services, Inc. (2007) Submission of Product Che
         mistry and Efficacy Data in Support of the Registration of Z112-011
         . Transmittal of 3 Studies.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                         09/07/07
                                        472258 00
         Administrative No: 063823-57
         NO laboratory records for MRID: 47225800
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
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ROOT DT: 05
           Product/Manufacturing Chemistry & Analysis
        CONTENT CATEGORY: Transmittal Documents
        ROOT DT: 10
           Pesticide Use
        CONTENT CATEGORY: Transmittal Documents
47225801 Management Contract Services, Inc. (2007) Addendum to the Report: P
        roduct Identity and Composition of Z112-011. Project Number: 05110
        7/3/A. Unpublished study. 13 p.
        Trade Secret Status: CBI Document, Confidential A
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                         09/07/07
                                       472258 01
         Administrative No: 063823-57
         Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
         Lab Project No.: 051107/3/A
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 050512
            Physical/Chemical - pH
         GUIDELINE: 830.7000
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
         ROOT DT: 050515
            Physical/Chemical - Flammability
         GUIDELINE: 830.6315
            Flammability
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
          ROOT DT: 050516
             Physical/Chemical - Explodability
          GUIDELINE: 830.6316
             Explodability
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
          ROOT DT: 050519
             Physical/Chemical - Miscibility
          GUIDELINE: 830.6319
             Miscibility
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
          ROOT DT: 050521
             Physical/Chemical - Dielectric Breakdown Voltage
          GUIDELINE: 830.6321
             Dielectric Breakdown Voltage
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
          ROOT DT: 052010
             Product Mfg - Beginning Materials & Mfg Process
          GUIDELINE: 830.1620
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Description of Production Process
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 052020
           Product Mfg - Formation of Unintentional Ingred/Impurities
        GUIDELINE: 830.1670
           Discussion of Formation of Impurities
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 0530
           Composition of Pesticide Products
        GUIDELINE: 830.1550
           Product Identity and Composition
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
47225802 Management Contract Services, Inc. (2007) Addendum to the Report: L
         aboratory Efficacy Evaluation of Z112-011 BA-16. Project Number: B
        A/016/1. Unpublished study. 8 p.
         Trade Secret Status: CBI Document, Confidential A
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
                         09/07/07
         Administrative No: 063823-57
         Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
         Lab Project No.: BA/016/1
         *** Chemistry Indexing ***
                                        FORMULATION: Not Formulated Pesticide
         SUBSTANCE CLASS: Single
            2.4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thy1 ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 1005
            Pesticide Use - Product Performance (Efficacy)
         GUIDELINE: 810.3400
            Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
         DT SITE: HOUSEHOLD OR DOMESTIC DWELLINGS (ALL OR UNSPECIFIED)
         DT PEST: MOSQUITOES
 47225803 Management Contract Services, Inc. (2007) Addendum to the Report: L
          aboratory Efficacy Evaluation of Z112-011 BA-R0059. Project Number
          : BA/R0059/1. Unpublished study. 8 p.
          Trade Secret Status: CBI Document, Confidential A
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
             063823
                        09/07/07
                                          472258 03
          Administrative No: 063823-57
          Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
          Lab Project No.: BA/R0059/1
          *** Chemistry Indexing ***
          SUBSTANCE CLASS: Single FORMULATION: Not Formulated Pesticide
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2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 0535
           Composition of Test Materials
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
47277100 Management Contract Services, Inc. (2007) Submission of Efficacy D
        ata in Support of the Registration of Z112 - 011. Transmittal of 1
         Study.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                    11/09/07
                                       472771 00
         Administrative No: 063823-57
         NO laboratory records for MRID: 47277100
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 10
            Pesticide Use
         CONTENT CATEGORY: Transmittal Documents
 47277101 Willis, M. (2007) Z112-011 Briquet: Efficacy Protocol. Project Num
         ber: BA/P0010. Unpublished study prepared by Management Contract S
         ervices, Inc. 6 p.
         Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
            063823
                         11/09/07
                                        472771 01
          Administrative No: 063823-57
          Laboratory No.: 063823
                                  MANAGEMENT CONTRACT SERVICES, INC.
          Lab Project No.: BA/P0010
          *** Chemistry Indexing ***
          SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
             2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
               thyl ester, (2E, 4E, 7S)-, (105402)
          *** Subject Indexing ***
          ROOT DT: 1005
             Pesticide Use - Product Performance (Efficacy)
          GUIDELINE: 810.3400
             Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
          DT SITE: HOUSEHOLD OR DOMESTIC DWELLINGS (ALL OR UNSPECIFIED)
          DT PEST: MOSQUITOES
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47511300 Management Contract Services, Inc. (2008) Submission of Product Che

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mistry and Efficacy Data in Support of the Registration of Z112-011
        . Transmittal of 2 Studies.
        Trade Secret Status: Document Contains CBI
        Submitter: MANAGEMENT CONTRACT SERVICES, INC.
        Submitter No. Submission Date Accession No.
                      08/15/08 475113 00
        Administrative No: 063823-57
        NO laboratory records for MRID: 47511300
        *** Chemistry Indexing ***
                                        FORMULATION: Not Formulated Pesticide
        SUBSTANCE CLASS: Single
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 05
           Product/Manufacturing Chemistry & Analysis
        CONTENT CATEGORY: Transmittal Documents
        ROOT DT: 10
           Pesticide Use
        CONTENT CATEGORY: Transmittal Documents
47511301 Kaminsky, M. (2008) Z112-011 Briquet: Stability to Elevated Tempera
        tures, Metals and Metal Ions: Final Report. Project Number: 11250/
        07. Unpublished study prepared by Stillmeadow, Inc. 11 p.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                         08/15/08
                                        475113 01
         Administrative No: 063823-57
         Laboratory No.: 081984
                                    ECOSAFE NATURAL PRODUCTS INC.
                          958053
                                  STILLMEADOW, INC.
         Lab Project No.: 11250/07
         *** Chemistry Indexing ***
                                        FORMULATION: Not Formulated Pesticide
         SUBSTANCE CLASS: Single
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 050513
            Physical/Chemical - Stability
         GUIDELINE: 830.6313
            Stability to Normal and Elevated
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
 47511302 Akstins, E. (2008) Z112-011: Field Efficacy Evaluation of Z112-011
          on Aedes aegypti Mosquito Larvae. Project Number: FR/R0102. Unpub
          lished study prepared by Management Contract Services, Inc. 23 p.
          Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
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Submitter No. Submission Date Accession No.
                      08/15/08 475113 02
          063823
        Administrative No: 063823-57
        Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
        Lab Project No.: FR/R0102
        *** Chemistry Indexing ***
                                       FORMULATION: Not Formulated Pesticide
        SUBSTANCE CLASS: Single
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 1005
           Pesticide Use - Product Performance (Efficacy)
        GUIDELINE: 810.3400
           Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        DT PEST: MOSQUITOES
        ROOT DT: 1005
           Pesticide Use - Product Performance (Efficacy)
        GUIDELINE: 95-10
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        DT PEST: MOSQUITOES
47688600 Management Contract Services, Inc. (2009) Submission of Product Che
        mistry Data in Support of the Registration of Z112-011. Transmitta
        1 of 1 Study.
        Trade Secret Status: Document Contains CBI
        Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
           063823
                        02/26/09
                                       476886 00
         Administrative No: 063823-57
         NO laboratory records for MRID: 47688600
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 05
            Product/Manufacturing Chemistry & Analysis
         CONTENT CATEGORY: Transmittal Documents
47688601 Kaminsky, M. (2009) Z112-011 Briquet: Storage Stability with Corros
         ion Characteristics: Final Report. Project Number: 11251/07. Unpu
         blished study prepared by Stillmeadow, Inc. 16 p.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
                                                                                               ....
         Submitter No. Submission Date Accession No.
            063823
                        02/26/09
                                         476886 01
         Administrative No: 063823-57
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Laboratory No.: 958053
                                  STILLMEADOW, INC.
                         081984
                                  ECOSAFE NATURAL PRODUCTS INC.
        Lab Project No.: 11251/07
        *** Chemistry Indexing ***
        SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 0525
           Storage Stability/Shelf Life
        GUIDELINE: 830.6317
           Storage Stability
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 050520
           Physical/Chemical - Corrosion Characteristics
        GUIDELINE: 830.6320
            Corrosion Characteristics
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
47716000 Management Contract Services, Inc. (2009) Submission of Product Che
         mistry, Efficacy and Toxicity Data in Support of the Amended Regist
         ration of Z112-011. Transmittal of 10 Studies.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
                        03/26/09
         Administrative No: 063823-57
         NO laboratory records for MRID: 47716000
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 05
            Product/Manufacturing Chemistry & Analysis
         CONTENT CATEGORY: Transmittal Documents
          ROOT DT: 10
            Pesticide Use
          CONTENT CATEGORY: Transmittal Documents
          ROOT DT: 40
            Pesticide Effects on Non-target Animals (Including Man)
          CONTENT CATEGORY: Transmittal Documents
 47716001 Ulrich, J. (2008) Product Identity and Composition of Z112-011 Briq
          uet. Project Number: 081210/1. Unpublished study prepared by Mana
          gement Contract Services, Inc. 76 p.
          Trade Secret Status: CBI Document, Confidential A
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
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Submitter No. Submission Date Accession No.
         063823
                      03/26/09
                                     477160 01
       Administrative No: 063823-57
       Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
       Lab Project No.: 081210/1
       *** Chemistry Indexing ***
       SUBSTANCE CLASS: Single
                                       FORMULATION: Not Formulated Pesticide
          2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
            thyl ester, (2E, 4E, 7S)-, (105402)
       *** Subject Indexing ***
       ROOT DT: 052010
          Product Mfg - Beginning Materials & Mfg Process
        GUIDELINE: 880.1200
          Desc. of Starting Materials, Production and Formulation Process
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 052020
           Product Mfg - Formation of Unintentional Ingred/Impurities
        GUIDELINE: 880.1400
           Discussion of Formation of Impurities
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 05202504
           Product Mfg - Certification of Limits
        GUIDELINE: 830.1750
           Certified Limits
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 05202506
           Product Mfg - Analytical Methods to Verify Limits
        GUIDELINE: 830.1800
           Enforcement Analytical Method
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 0530
           Composition of Pesticide Products
        GUIDELINE: 880.1100
           Product Identity and Composition
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
47716002 Wo, C. (2007) Z112-011: Storage Stability and Corrosion Characteris
         tics. Project Number: 20263, P800, 060726/6R. Unpublished study p
         repared by Eurofins-Product Safety Laboratories. 27 p.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                                       477160 02
                       03/26/09
         Administrative No: 063823-57
         Laboratory No.: 081984
                                   ECOSAFE NATURAL PRODUCTS INC.
                                  PRODUCT SAFETY LABORATORIES
                          954614
                                                                 P800
         Lab Project No.: 060726/6R
                                              20263
         *** Chemistry Indexing ***
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FORMULATION: Not Formulated Pesticide
        SUBSTANCE CLASS: Single
          2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 050520
           Physical/Chemical - Corrosion Characteristics
        GUIDELINE: 830.6320
           Corrosion Characteristics
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 0525
           Storage Stability/Shelf Life
        GUIDELINE: 830.6317
           Storage Stability
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
47716003 Kuhn, J. (2008) Z112-011: Acute Oral Toxicity Study (UDP) in Rats:
        Final Report. Project Number: 11792/08. Unpublished study prepare
        d by Stillmeadow, Inc. 13 p.
        Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                       03/26/09
                                       477160 03
         Administrative No: 063823-57
         Laboratory No.: 063823
                                   MANAGEMENT CONTRACT SERVICES, INC.
                          958053 STILLMEADOW, INC.
         Lab Project No.: 11792/08
         *** Chemistry Indexing ***
                                         FORMULATION: Not Formulated Pesticide
         SUBSTANCE CLASS: Single
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 40050505
            Acute Exposure - Oral
         GUIDELINE: 870.1100
            Acute Oral Toxicity
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
         TEST ORGANISM: Laboratory Mammals - Rat
 47716004 Kuhn, J. (2008) Z112-011: Acute Dermal Toxicity Study in Rats: Fina
          1 Report. Project Number: 11793/08. Unpublished study prepared by
          Stillmeadow, Inc. 15 p.
          Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
             063823
                        03/26/09
                                         477160 04
                                                                                               . . . .
          Administrative No: 063823-57
          Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
                           958053
                                   STILLMEADOW, INC.
          Lab Project No.: 11793/08
```

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*** Chemistry Indexing ***
                                       FORMULATION: Not Formulated Pesticide
        SUBSTANCE CLASS: Single
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 40050510
           Acute Exposure - Dermal
        GUIDELINE: 870.1200
           Acute Dermal Toxicity
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        TEST ORGANISM: Laboratory Mammals - Rat
47716005 Carter, L. (2008) Z112-011: Acute Inhalation Toxicity Study in Rats
        : Final Report. Project Number: 12376/08. Unpublished study prepa
        red by Stillmeadow, Inc. 19 p.
        Trade Secret Status: Document Contains CBI
        Submitter: MANAGEMENT CONTRACT SERVICES, INC.
        Submitter No. Submission Date Accession No.
           063823
                   03/26/09 477160 05
        Administrative No: 063823-57
         Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
                         958053 STILLMEADOW, INC.
         Lab Project No.: 12376/08
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                       FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 40050515
            Acute Exposure - Respiratory/Inhalation
         GUIDELINE: 870.1300
            Acute Inhalation Toxicity
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
         TEST ORGANISM: Laboratory Mammals - Rat
 47716006 Kuhn, J. (2008) Z112-011: Acute Eye Irritation Study in Rabbits: Fi
         nal Report. Project Number: 11795/08. Unpublished study prepared
         by Stillmeadow, Inc. 18 p.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
             063823
                        03/26/09
                                        477160 06
          Administrative No: 063823-57
          Laboratory No.: 063823
                                    MANAGEMENT CONTRACT SERVICES, INC.
                                                                                              . . . .
                          958053
                                    STILLMEADOW, INC.
          Lab Project No.: 11795/08
          *** Chemistry Indexing ***
          SUBSTANCE CLASS: Single FORMULATION: Not Formulated Pesticide
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2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 40050540
           Acute Exposure - Primary Eye Irritation
        GUIDELINE: 870.2400
           Acute Eye Irritation
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        TEST ORGANISM: Laboratory Mammals - Rabbit
47716007 Kuhn, J. (2008) Z112-011: Acute Dermal Irritation Study in Rabbits:
         Final Report. Project Number: 11796/08. Unpublished study prepar
        ed by Stillmeadow, Inc. 13 p.
        Trade Secret Status: Document Contains CBI
        Submitter: MANAGEMENT CONTRACT SERVICES, INC.
        Submitter No. Submission Date Accession No.
           063823
                     03/26/09
                                      477160 07
        Administrative No: 063823-57
        Laboratory No.: 063823
                                   MANAGEMENT CONTRACT SERVICES, INC.
                         958053 STILLMEADOW, INC.
         Lab Project No.: 11796/08
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 40050535
            Acute Exposure - Primary Dermal Irritation
         GUIDELINE: 870.2500
            Acute Dermal Irritation
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
         TEST ORGANISM: Laboratory Mammals - Rabbit
47716008 Kuhn, J. (2008) Z1112-011: Skin Sensitization Study in Guinea Pigs:
          Final Report. Project Number: 11797/08, 11950/08. Unpublished st
         udy prepared by Stillmeadow, Inc. 18 p.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                      03/26/09 477160 08
          Administrative No: 063823-57
          Laboratory No.: 063823
                                    MANAGEMENT CONTRACT SERVICES, INC.
                          958053 STILLMEADOW, INC.
          Lab Project No.: 11797/08
                                              11950/08
                                                                                             (((
          *** Chemistry Indexing ***
                                   FORMULATION: Not Formulated Pesticide
          SUBSTANCE CLASS: Single
             2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
               thyl ester, (2E, 4E, 7S)-, (105402)
```

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*** Subject Indexing ***
        ROOT DT: 40051020
           Subacute or Subchronic Exposure - Dermal Sensitization
        GUIDELINE: 870.2600
           Skin Sensitization
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        TEST ORGANISM: Laboratory Mammals - Guinea Pig
47716009 Akstins, E.; Coon, B. (2008) Field Efficacy Evaluation of Z112-011
        on Aedes aegypti Mosquito Larvae: Z112-011 Briquets. Project Numbe
         r: FR/R0106. Unpublished study prepared by Management Contract Ser
        vices, Inc. 24 p.
         Trade Secret Status: CBI Document, Confidential A
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                      03/26/09
         Administrative No: 063823-57
         Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
         Lab Project No.: FR/R0106
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 1005
            Pesticide Use - Product Performance (Efficacy)
         GUIDELINE: 95-10
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
         DT PEST: MOSQUITOES
47716010 Akstins, E.; Coon, B. (2008) Z112-011 Briquets: Field Efficacy Eval
         uation of Z112-011 on Culex quinquefasciatus Mosquito Larvae. Proj
          ect Number: FR/R0107. Unpublished study prepared by Management Con
          tract Services, Inc. 20 p.
          Trade Secret Status: CBI Document, Confidential A
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
                       03/26/09
          Administrative No: 063823-57
          Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
          Lab Project No.: FR/R0107
                                                                                              . . . . . .
          *** Chemistry Indexing ***
          SUBSTANCE CLASS: Single
                                   FORMULATION: Not Formulated Pesticide
             2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
               thyl ester, (2E, 4E, 7S)-, (105402)
          *** Subject Indexing ***
          ROOT DT: 1005
             Pesticide Use - Product Performance (Efficacy)
          GUIDELINE: 95-10
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CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        DT PEST: MOSQUITOES
48321900 Management Contract Services, Inc. (2010) Submission of Efficacy Da
        ta in Support of the Amended Registration of Z112-011. Transmittal
        Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                    12/13/10
                                        483219 00
         Administrative No: 063823-57
         NO laboratory records for MRID: 48321900
         *** Chemistry Indexing ***
                                        FORMULATION: Not Formulated Pesticide
         SUBSTANCE CLASS: Single
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 10
            Pesticide Use
         CONTENT CATEGORY: Transmittal Documents
 48321901 Szymczyk, J. (2010) Field Efficacy Determination of Z112-011 Brique
         tte Formulation against Culex quinquefasciatus Say Mosquito Larvae.
           Project Number: FR/R0201. Unpublished study prepared by Manageme
         nt Contract Services, Inc. 15 p.
          Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
                         12/13/10
                                          483219 01
          Administrative No: 063823-57
          Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
          Lab Project No.: FR/R0201
          *** Chemistry Indexing ***
          SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
             2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
               thyl ester, (2E, 4E, 7S)-, (105402)
          *** Subject Indexing ***
          ROOT DT: 1005
             Pesticide Use - Product Performance (Efficacy)
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
                                                                                              (((((
          DT SITE: HOSPITAL NONCRITICAL PREMISES (E.G. LABS, WAITING ROOMS)
          DT PEST: MOSQUITOES
 48321902 Szymczyk, J. (2010) Field Efficacy Determination of Z112-011 Formul
          ation against Aedes aegypti (L.) Mosquito Larvae. Project Number:
          FR/R0202. Unpublished study prepared by Management Contract Servic
           es, Inc. 15 p.
           Trade Secret Status: Document Contains CBI
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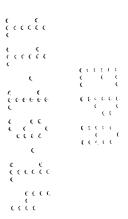
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Submitter: MANAGEMENT CONTRACT SERVICES, INC.
       Submitter No. Submission Date Accession No.
                        12/13/10
                                        483219 02
       Administrative No: 063823-57
        Laboratory No.: 063823
                                  MANAGEMENT CONTRACT SERVICES, INC.
        Lab Project No.: FR/R0202
        *** Chemistry Indexing ***
                                        FORMULATION: Not Formulated Pesticide
        SUBSTANCE CLASS: Single
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 1005
           Pesticide Use - Product Performance (Efficacy)
        GUIDELINE: 95-10
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        DT SITE: HOSPITAL NONCRITICAL PREMISES (E.G. LABS, WAITING ROOMS)
        DT PEST: MOSQUITOES
*** END OF OUTPUT ***
```

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APPENDIX D - Z112-012 - EPA REGISTRATION NO. 63823-58



My NPIRS

Searches

Meetings

Resources

Contacts

63823-58

Citation, Submitter, Laboratory, Chemistry and Subject

Date of Search: 11/13/14 Time of Search: 15:52

Last Search: PRODUCT DATABASE - EPA REGISTRATION NUMBERS

Number of Citations Selected: 31

46876600 Management Contract Services, Inc. (2006) Submission of Product Che mistry Data in Support of the Applications for Registration of Z112 -009, Z112-010, Z112-011, and Z112-012. Transmittal of 1 Study.

Trade Secret Status: Document Contains CBI

Submitter: MANAGEMENT CONTRACT SERVICES, INC.
Submitter No. Submission Date Accession No.
063823 06/28/06 468766 00

Administrative No: 063823-55 063823-56 063823-57 063823-58

NO laboratory records for MRID: 46876600

*** Chemistry Indexing ***

SUBSTANCE CLASS: Single FORMULATION: Not Formulated Pesticide

2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle

thyl ester, (2E, 4E, 7S)-, (105402)

*** Subject Indexing ***

ROOT DT: 05

Product/Manufacturing Chemistry & Analysis CONTENT CATEGORY: Transmittal Documents

46876601 Bradbury, R. (2005) HPLC Method for Analysis of S-Methoprene. Project Number: 111505. Unpublished study prepared by EcoSafe Natural Products Inc. 14 p.

Trade Secret Status: Document Contains CBI

Submitter: MANAGEMENT CONTRACT SERVICES, INC. Submitter No. Submission Date Accession No. 063823 06/28/06 468766 01

Administrative No: 063823-55 063823-56 063823-57 063823-58

Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC. 081984 ECOSAFE NATURAL PRODUCTS INC.

Lab Project No.: 111505

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*** Chemistry Indexing ***
                                       FORMULATION: Not Formulated Pesticide
        SUBSTANCE CLASS: Single
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 052025
           Product Mfg - Analysis & Certification of Product Ingreds
        CONTENT CATEGORY: Analytical Method
46877000 Management Contract Services, Inc. (2006) Submission of Product Che
        mistry, Efficacy, and Toxicity Data in Support of the Application f
        or Registration of Z112-012. Transmittal of 4 Studies.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
                      06/28/06
                                        468770 00
         Administrative No: 063823-58
         NO laboratory records for MRID: 46877000
         *** Chemistry Indexing ***
                                         FORMULATION: Not Formulated Pesticide
         SUBSTANCE CLASS: Single
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 05
            Product/Manufacturing Chemistry & Analysis
         CONTENT CATEGORY: Transmittal Documents
         ROOT DT: 10
            Pesticide Use
          CONTENT CATEGORY: Transmittal Documents
          ROOT DT: 40
             Pesticide Effects on Non-target Animals (Including Man)
          CONTENT CATEGORY: Transmittal Documents
 46877001 Bradbury, R. (2005) Product Identity and Composition of Z112-012.
          Project Number: 051107/1. Unpublished study prepared by EcoSafe Na
          tural Products Inc. 70 p.
          Trade Secret Status: CBI Document, Confidential A
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
             063823
                          06/28/06
                                          468770 01
          Administrative No: 063823-58
                                     MANAGEMENT CONTRACT SERVICES, INC.
          Laboratory No.: 063823
                           081984
                                    ECOSAFE NATURAL PRODUCTS INC.
                                                                                              . . . .
          Lab Project No.: 051107/1
                                                                                                . . . .
           *** Chemistry Indexing ***
          SUBSTANCE CLASS: Single
                                          FORMULATION: Not Formulated Pesticide
             2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
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thyl ester, (2E, 4E, 7S)-, (105402)
       *** Subject Indexing ***
       ROOT DT: 052010
          Product Mfg - Beginning Materials & Mfg Process
       GUIDELINE: 830.1600
          Description of Materials Used to Produce the Product
       CONTENT CATEGORY: Unattributed Secondary Report
       ROOT DT: 052010
           Product Mfg - Beginning Materials & Mfg Process
       GUIDELINE: 830.1650
           Description of Formulation Process
        CONTENT CATEGORY: Unattributed Secondary Report
        ROOT DT: 052020
           Product Mfg - Formation of Unintentional Ingred/Impurities
        GUIDELINE: 830.1670
           Discussion of Formation of Impurities
        CONTENT CATEGORY: Unattributed Secondary Report
        ROOT DT: 05202504
           Product Mfg - Certification of Limits
        GUIDELINE: 830.1750
           Certified Limits
        CONTENT CATEGORY: Unattributed Secondary Report
        ROOT DT: 0530
           Composition of Pesticide Products
        GUIDELINE: 830.1550
           Product Identity and Composition
        CONTENT CATEGORY: Unattributed Secondary Report
46877002 Wo, C. (2006) Physical and Chemical Characteristics: Color, Physica
        1 State, Odor and Density of Solids: Z112-012. Project Number: 188
        36, P801. Unpublished study prepared by Product Safety Laboratorie
        s. 12 p.
        Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                        06/28/06
                                       468770 02
         Administrative No: 063823-58
         Laboratory No.: 954614 PRODUCT SAFETY LABORATORIES
         Lab Project No.: 18836
                                              P801
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 050502
            Physical/Chemical - Color
         GUIDELINE: 830.6302
         CONTENT CATEGORY: Unattributed Secondary Report
         ROOT DT: 050503
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Physical/Chemical - Physical State
        GUIDELINE: 830.6303
           Physical State
        CONTENT CATEGORY: Unattributed Secondary Report
        ROOT DT: 050504
           Physical/Chemical - Odor
        GUIDELINE: 830.6304
        CONTENT CATEGORY: Unattributed Secondary Report
        ROOT DT: 050507
           Physical/Chemical - Density or Gravity
        GUIDELINE: 830.7300
           Density/Relative Density/Bulk Density
        CONTENT CATEGORY: Unattributed Secondary Report
46877003 Bradbury, R. (2006) Laboratory Efficacy Evaluation of Z112-012 Form
        ulation: (Aedes aegypti). Project Number: BA/017. Unpublished stu
        dy prepared by EcoSafe Natural Products Inc. 9 p.
        Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                       06/28/06
                                       468770 03
         Administrative No: 063823-58
         Laboratory No.: 063823
                                   MANAGEMENT CONTRACT SERVICES, INC.
                          081984
                                   ECOSAFE NATURAL PRODUCTS INC.
         Lab Project No.: BA/017
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 1005
            Pesticide Use - Product Performance (Efficacy)
         GUIDELINE: 95-10
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
         DT SITE: AQUATIC AREAS (ALL OR UNSPECIFIED)
         DT PEST: MOSQUITOES
46877004 (2006) Request(s) for Waiver: Z112-012. Project Number: Z112012/1.
           Unpublished study prepared by Management Contract Services, Inc.
          15 p.
         Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
             063823
                         06/28/06
                                         468770 04
          Administrative No: 063823-58
          Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
          Lab Project No.: Z112012/1
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*** Chemistry Indexing ***
       SUBSTANCE CLASS: Single
                                      FORMULATION: Not Formulated Pesticide
          2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
            thyl ester, (2E, 4E, 7S)-, (105402)
       *** Subject Indexing ***
       ROOT DT: 050520
          Physical/Chemical - Corrosion Characteristics
       CONTENT CATEGORY: 43
       ROOT DT: 40050505
          Acute Exposure - Oral
       CONTENT CATEGORY: 43
       TEST ORGANISM: Laboratory Mammals - Multiple or Unspecified
       ROOT DT: 40050510
          Acute Exposure - Dermal
       CONTENT CATEGORY: 43
       TEST ORGANISM: Laboratory Mammals - Multiple or Unspecified
       ROOT DT: 40050515
          Acute Exposure - Respiratory/Inhalation
        CONTENT CATEGORY: 43
        TEST ORGANISM: Laboratory Mammals - Multiple or Unspecified
        ROOT DT: 40050535
           Acute Exposure - Primary Dermal Irritation
        CONTENT CATEGORY: 43
        TEST ORGANISM: Laboratory Mammals - Multiple or Unspecified
        ROOT DT: 40050540
           Acute Exposure - Primary Eye Irritation
        CONTENT CATEGORY: 43
        TEST ORGANISM: Laboratory Mammals - Multiple or Unspecified
        ROOT DT: 40051020
           Subacute or Subchronic Exposure - Dermal Sensitization
        CONTENT CATEGORY: 43
        TEST ORGANISM: Laboratory Mammals - Multiple or Unspecified
        ROOT DT: 050514
           Physical/Chemical - Oxidizing or Reducing Action
        CONTENT CATEGORY: 43
        ROOT DT: 0525
           Storage Stability/Shelf Life
        CONTENT CATEGORY: 43
47014100 Management Contract Services Inc. (2006) Submission of Efficacy Dat
         a in Support of the Application for Registration of Z112-012. Tran
         smittal of 6 Studies.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                      12/27/06
                                       470141 00
         Administrative No: 063823-58
         NO laboratory records for MRID: 47014100
         *** Chemistry Indexing ***
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SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 10
            Pesticide Use
        CONTENT CATEGORY: Transmittal Documents
47014101 Bradbury, R. (2006) Laboratory Efficacy Evaluation of Z112-012 Form
         ulation: S-Methroprene: Final Report. Project Number: BA/017A. Un
         published study prepared by EcoSafe Natural Products Inc. 11 p.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
                         12/27/06
         Administrative No: 063823-58
         Laboratory No.: 063823
                                    MANAGEMENT CONTRACT SERVICES, INC.
                          081984
                                    ECOSAFE NATURAL PRODUCTS INC.
         Lab Project No.: BA/017A
         *** Chemistry Indexing ***
                                         FORMULATION: Not Formulated Pesticide
         SUBSTANCE CLASS: Single
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
          *** Subject Indexing ***
          ROOT DT: 1005
             Pesticide Use - Product Performance (Efficacy)
          GUIDELINE: 95-10
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
          DT SITE: INSECT/INVERTEBRATE TRAPS
 47014102 Schmidt, R. (2006) Field Comparison of Four Long Duration Larvicide
           Formulations in Middlesex County, New Jersey. New Jersey Mosquito
           Control Association: 66-70.
          Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
             063823
                          12/27/06
                                          470141 02
          Administrative No: 063823-58
          Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
                           081984 ECOSAFE NATURAL PRODUCTS INC.
          *** Chemistry Indexing ***
                                          FORMULATION: Not Formulated Pesticide
          SUBSTANCE CLASS: Single
             2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
               thyl ester, (2E, 4E, 7S)-, (105402)
           *** Subject Indexing ***
           ROOT DT: 1005
              Pesticide Use - Product Performance (Efficacy)
           GUIDELINE: 810.3400
              Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
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CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        DT SITE: INSECT/INVERTEBRATE TRAPS
47014103 Knepper, R. (2006) Evaluation of Methoprene Altosid XR Sustained Re
        leased Brisquets for Control of Culex Mosquitoes in Urban Catch Bas
         in. Journal of the American Mosquito Control Association 8(30): 22
         8-230.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                    12/27/06 470141 03
         Administrative No: 063823-58
         Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
                          081984 ECOSAFE NATURAL PRODUCTS INC.
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 1005
            Pesticide Use - Product Performance (Efficacy)
         GUIDELINE: 810.3400
            Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
          DT SITE: INSECT/INVERTEBRATE TRAPS
 47014104 Rathburn, C.; Boike, A. (2006) The Efficacy of Pre Flood and Residu
          al Application of Two Formulations of Methoprene. Mosquito News 37
          (4): 620-622.
          Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
                       12/27/06 470141 04
             063823
          Administrative No: 063823-58
          Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
                           081984 ECOSAFE NATURAL PRODUCTS INC.
          *** Chemistry Indexing ***
          SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
             2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
               thyl ester, (2E, 4E, 7S)-, (105402)
          *** Subject Indexing ***
          ROOT DT: 1005
             Pesticide Use - Product Performance (Efficacy)
          GUIDELINE: 810.3400
             Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
           CONTENT CATEGORY: Complete Primary Report -- Experimental Research
           DT SITE: INSECT/INVERTEBRATE TRAPS
  47014105 Weathersbee, A.; Meisch, M. (2006) Long Term Residual Activity of M
           ethoprene Against Psorophora Columbiae Larvae in Rice Plots. Journ
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al of the American Mosquito Control Association 7(4): 592-594.

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Trade Secret Status: Document Contains CBI
        Submitter: MANAGEMENT CONTRACT SERVICES, INC.
        Submitter No. Submission Date Accession No.
          063823 12/27/06 470141 05
        Administrative No: 063823-58
        Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
                        081984 ECOSAFE NATURAL PRODUCTS INC.
        *** Chemistry Indexing ***
        SUBSTANCE CLASS: Single
                                       FORMULATION: Not Formulated Pesticide
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 1005
           Pesticide Use - Product Performance (Efficacy)
        GUIDELINE: 810.3400
           Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        DT SITE: INSECT/INVERTEBRATE TRAPS
47014106 Ross, D. (2006) Methoprene Concentrations in Freshwater Microcosms
        Treated with Sustained Release Altosid Formulations. Journal of th
         e American Mosquito Control Association 10(2): 202-210.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
                        12/27/06 470141 06
           063823
         Administrative No: 063823-58
         Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
                          081984 ECOSAFE NATURAL PRODUCTS INC.
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 1005
            Pesticide Use - Product Performance (Efficacy)
         GUIDELINE: 810.3400
            Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
         DT SITE: INSECT/INVERTEBRATE TRAPS
 47164800 Management Contract Services Inc. (2007) Submission of Efficacy and
          Product Chemistry Data in Support of the Application for Registrat
          ion of Z112-012. Transmittal of 2 Studies.
          Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
             063823
                       06/27/07 471648 00
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Administrative No: 063823-58
        NO laboratory records for MRID: 47164800
        *** Chemistry Indexing ***
                                       FORMULATION: Not Formulated Pesticide
        SUBSTANCE CLASS: Single
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 05
           Product/Manufacturing Chemistry & Analysis
        CONTENT CATEGORY: Transmittal Documents
        ROOT DT: 10
           Pesticide Use
        CONTENT CATEGORY: Transmittal Documents
47164801 Bradbury, R. (2007) Laboratory Efficacy Evaluation of Z112/012 Form
        ulation. Project Number: BA/R0060. Unpublished study prepared by
        EcoSafe Natural Products Inc. 12 p.
        Trade Secret Status: Document Contains CBI
        Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
           063823
                       06/27/07
                                       471648 01
         Administrative No: 063823-58
         Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
                         081984 ECOSAFE NATURAL PRODUCTS INC.
         Lab Project No.: BA/R0060
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 1005
            Pesticide Use - Product Performance (Efficacy)
         GUIDELINE: 95-10
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
         DT SITE: INSECT/INVERTEBRATE TRAPS
 47164802 Galloway, P. (2007) Addendum to the Report: Product Identity and Co
         mposition of Z112/012. Project Number: Z112012/070601/1. Unpublis
         hed study prepared by Management Contract ServicesS, Inc. 5 p.
         Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
            063823
                        06/27/07
                                        471648 02
          Administrative No: 063823-58
          Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
          Lab Project No.: Z112012/070601/1
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*** Chemistry Indexing ***
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                                       FORMULATION: Not Formulated Pesticide
          2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
            thyl ester, (2E, 4E, 7S)-, (105402)
       *** Subject Indexing ***
       ROOT DT: 050512
          Physical/Chemical - pH
       GUIDELINE: 830.7000
       CONTENT CATEGORY: Incomplete or Summarized -- Experimental Research
       ROOT DT: 050515
           Physical/Chemical - Flammability
        GUIDELINE: 830.6315
           Flammability
        CONTENT CATEGORY: Incomplete or Summarized -- Experimental Research
        ROOT DT: 050516
           Physical/Chemical - Explodability
        GUIDELINE: 830.6316
           Explodability
        CONTENT CATEGORY: Incomplete or Summarized -- Experimental Research
        ROOT DT: 050519
           Physical/Chemical - Miscibility
        GUIDELINE: 830.6319
           Miscibility
        CONTENT CATEGORY: Incomplete or Summarized -- Experimental Research
        ROOT DT: 050521
           Physical/Chemical - Dielectric Breakdown Voltage
        GUIDELINE: 830.6321
           Dielectric Breakdown Voltage
        CONTENT CATEGORY: Incomplete or Summarized -- Experimental Research
47225900 Management Contract Services, Inc. (2007) Submission of Product Che
        mistry and Efficacy Data in Support of the Registration of Z112-012
         . Transmittal of 3 Studies.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                        09/07/07
                                        472259 00
         Administrative No: 063823-58
         NO laboratory records for MRID: 47225900
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
            Product/Manufacturing Chemistry & Analysis
         CONTENT CATEGORY: Transmittal Documents
         ROOT DT: 10
            Pesticide Use
         CONTENT CATEGORY: Transmittal Documents
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47225901 Galloway, P. (2007) Addendum to the Report: Product Identity and Co
         mposition of Z112-012. Project Number: 051107/1/A. Unpublished st
         udy prepared by Landis International, Inc. 12 p.
         Trade Secret Status: CBI Document, Confidential A
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
                       09/07/07
         Administrative No: 063823-58
         Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
         Lab Project No.: 051107/1/A
         *** Chemistry Indexing ***
                                       FORMULATION: Not Formulated Pesticide
         SUBSTANCE CLASS: Single
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 050512
            Physical/Chemical - pH
          GUIDELINE: 830.7000
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
          ROOT DT: 050515
            Physical/Chemical - Flammability
          GUIDELINE: 830.6315
             Flammability
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
          ROOT DT: 050516
             Physical/Chemical - Explodability
          GUIDELINE: 830.6316
             Explodability
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
          ROOT DT: 050519
             Physical/Chemical - Miscibility
          GUIDELINE: 830.6319
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
          ROOT DT: 050521
             Physical/Chemical - Dielectric Breakdown Voltage
          GUIDELINE: 830.6321
             Dielectric Breakdown Voltage
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
           ROOT DT: 052010
             Product Mfg - Beginning Materials & Mfg Process
           GUIDELINE: 830.1620
              Description of Production Process
           CONTENT CATEGORY: Complete Primary Report -- Experimental Research
           ROOT DT: 052020
              Product Mfg - Formation of Unintentional Ingred/Impurities
           GUIDELINE: 830.1670
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Discussion of Formation of Impurities

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CONTENT CATEGORY: Complete Primary Report -- Experimental Research
47225902 Management Contract Services, Inc. (2007) Addendum to the Report: L
        aboratory Efficacy Evaluation of Z112-012 BA-17. Project Number: B
        A/017/1. Unpublished study. 8 p.
        Trade Secret Status: CBI Document, Confidential A
        Submitter: MANAGEMENT CONTRACT SERVICES, INC.
        Submitter No. Submission Date Accession No.
           063823
                        09/07/07
                                       472259 02
         Administrative No: 063823-58
         Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
         Lab Project No.: BA/017/1
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 1005
            Pesticide Use - Product Performance (Efficacy)
         GUIDELINE: 810.3400
            Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
         DT SITE: HOUSEHOLD OR DOMESTIC DWELLINGS (ALL OR UNSPECIFIED)
         DT PEST: MOSOUITOES
 47225903 Management Contract Services, Inc. (2007) Addendum to the Report: L
         aboratory Efficacy Evaluation of Z112-012 BA-R0060. Project Number
          : BA/R0060/1. Unpublished study. 8 p.
          Trade Secret Status: CBI Document, Confidential A
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
                         09/07/07
                                        472259 03
          Administrative No: 063823-58
          Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
          Lab Project No.: BA/R0060/1
          *** Chemistry Indexing ***
          SUBSTANCE CLASS: Single
                                       FORMULATION: Not Formulated Pesticide
             2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
               thyl ester, (2E, 4E, 7S)-, (105402)
          *** Subject Indexing ***
          ROOT DT: 0535
             Composition of Test Materials
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
 47277200 Management Contract Services, Inc. (2007) Submission of Efficacy Da
          ta in Support of the Reregistration of the S-Methoprene Containing
          Product Z112-012. Transmittal of 1 Study.
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Trade Secret Status: Document Contains CBI

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Submitter: MANAGEMENT CONTRACT SERVICES, INC.
        Submitter No. Submission Date Accession No.
           063823 11/09/07 472772 00
        Administrative No: 063823-58
        NO laboratory records for MRID: 47277200
        *** Chemistry Indexing ***
        SUBSTANCE CLASS: Single
                                      FORMULATION: Not Formulated Pesticide
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 10
           Pesticide Use
         CONTENT CATEGORY: Transmittal Documents
47277201 willis, M. (2007) Z112 - 012 Briquet Efficacy Protocol. Project Nu
         mber: BA/P0011. Unpublished study prepared by Management Contract
         Services, Inc. 6 p.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
                        11/09/07
                                       472772 01
            063823
         Administrative No: 063823-58
         Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
         Lab Project No.: BA/P0011
         *** Chemistry Indexing ***
                                         FORMULATION: Not Formulated Pesticide
         SUBSTANCE CLASS: Single
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
          *** Subject Indexing ***
          ROOT DT: 1005
            Pesticide Use - Product Performance (Efficacy)
          GUIDELINE: 810.3400
            Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
          DT SITE: INTERMITTENTLY FLOODED AREAS
          DT PEST: MOSQUITOES
 47511200 Management Contract Services, Inc. (2008) Submission of Product Che
          mistry Data in Support of the Registration of Z112-012. Transmitta
          1 of 1 Study.
          Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
                           08/15/08
                                         475112 00
          Administrative No: 063823-58
          NO laboratory records for MRID: 47511200
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*** Chemistry Indexing ***
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           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 05
           Product/Manufacturing Chemistry & Analysis
        CONTENT CATEGORY: Transmittal Documents
47511201 Kaminsky, M. (2008) Stability to Elevated Temperatures, Metals and
        Metal Ions: Z112-012 XR-Briquet: Final Report. Project Number: 112
        48/07. Unpublished study prepared by Stillmeadow, Inc. 11 p.
        Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                       08/15/08 475112 01
         Administrative No: 063823-58
         Laboratory No.: 081984 ECOSAFE NATURAL PRODUCTS INC.
                          958053 STILLMEADOW, INC.
         Lab Project No.: 11248/07
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 050513
            Physical/Chemical - Stability
         GUIDELINE: 830.6313
            Stability to Normal and Elevated
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
 47689600 Management Contract Services, Inc. (2009) Submission of Product Che
         mistry Data in Support of the Registration of Z112-012. Transmittal
          of 1 Study.
          Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
            063823 02/26/09 476896 00
          Administrative No: 063823-58
          NO laboratory records for MRID: 47689600
          *** Chemistry Indexing ***
                                          FORMULATION: Not Formulated Pesticide
          SUBSTANCE CLASS: Single
             2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
               thyl ester, (2E, 4E, 7S)-, (105402)
          *** Subject Indexing ***
                                                                                               5166
          ROOT DT: 05
             Product/Manufacturing Chemistry & Analysis
          CONTENT CATEGORY: Transmittal Documents
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47689601 Kaminsky, M. (2009) Storage Stability with Corrosion Characteristic
        s: Z112-012 XR-Briquet: Final Report. Project Number: 11249/07. U
        npublished study prepared by Stillmeadow, Inc. 16 p.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
                        02/26/09 476896 01
            063823
         Administrative No: 063823-58
         Laboratory No.: 063823
                                   MANAGEMENT CONTRACT SERVICES, INC.
                          958053 STILLMEADOW, INC.
         Lab Project No.: 11249/07
         *** Chemistry Indexing ***
                                        FORMULATION: Not Formulated Pesticide
         SUBSTANCE CLASS: Single
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 050520
            Physical/Chemical - Corrosion Characteristics
         GUIDELINE: 830.6320
            Corrosion Characteristics
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
          ROOT DT: 0525
            Storage Stability/Shelf Life
          GUIDELINE: 830.6317
            Storage Stability
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
 47720800 Management Contract Services, Inc. (2009) Submission of Product Che
          mistry Data in Support of the Amended Registration of Z112-012. Tr
          ansmittal of 1 Study.
          Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
             063823
                       04/07/09 477208 00
          Administrative No: 063823-58
          NO laboratory records for MRID: 47720800
          *** Chemistry Indexing ***
          SUBSTANCE CLASS: Single
                                          FORMULATION: Not Formulated Pesticide
             2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
               thyl ester, (2E, 4E, 7S)-, (105402)
           *** Subject Indexing ***
           ROOT DT: 05
              Product/Manufacturing Chemistry & Analysis
           CONTENT CATEGORY: Transmittal Documents
                                                                                              . . . . .
  47720801 Ulrich, J. (2008) Product Identity and Composition of Z112-012. Pr
           oject Number: 081208/2. Unpublished study prepared by Management C
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ontract Services, Inc. 76 p.

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Trade Secret Status: CBI Document, Confidential A
Submitter: MANAGEMENT CONTRACT SERVICES, INC.
Submitter No. Submission Date Accession No.
  063823
               04/07/09
                               477208 01
Administrative No: 063823-58
Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
Lab Project No.: 081208/2
*** Chemistry Indexing ***
SUBSTANCE CLASS: Single
                                FORMULATION: Not Formulated Pesticide
   2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
     thyl ester, (2E, 4E, 7S)-, (105402)
*** Subject Indexing ***
ROOT DT: 05202502
   Product Mfg - Preliminary Analysis
GUIDELINE: 830.1700
   Preliminary Analysis
 CONTENT CATEGORY: Complete Primary Report -- Experimental Research
 ROOT DT: 0530
   Composition of Pesticide Products
 GUIDELINE: 830.1550
   Product Identity and Composition
 CONTENT CATEGORY: Complete Primary Report -- Experimental Research
 ROOT DT: 050512
    Physical/Chemical - pH
 GUIDELINE: 830.7000
 CONTENT CATEGORY: Complete Primary Report -- Experimental Research
 ROOT DT: 050515
    Physical/Chemical - Flammability
 GUIDELINE: 830.6315
    Flammability
 CONTENT CATEGORY: Complete Primary Report -- Experimental Research
 ROOT DT: 050516
    Physical/Chemical - Explodability
 GUIDELINE: 830.6316
    Explodability
 CONTENT CATEGORY: Complete Primary Report -- Experimental Research
 ROOT DT: 050519
    Physical/Chemical - Miscibility
  GUIDELINE: 830.6319
    Miscibility
  CONTENT CATEGORY: Complete Primary Report -- Experimental Research
  ROOT DT: 050521
     Physical/Chemical - Dielectric Breakdown Voltage
  GUIDELINE: 830.6321
     Dielectric Breakdown Voltage
  CONTENT CATEGORY: Complete Primary Report -- Experimental Research
  ROOT DT: 052010
     Product Mfg - Beginning Materials & Mfg Process
  GUIDELINE: 830.1600
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Description of Materials Used to Produce the Product
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 052010
           Product Mfg - Beginning Materials & Mfg Process
        GUIDELINE: 880.1200
           Desc. of Starting Materials, Production and Formulation Process
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 052020
           Product Mfg - Formation of Unintentional Ingred/Impurities
        GUIDELINE: 830.1670
           Discussion of Formation of Impurities
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 052020
           Product Mfg - Formation of Unintentional Ingred/Impurities
        GUIDELINE: 880.1400
           Discussion of Formation of Impurities
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 0530
           Composition of Pesticide Products
         GUIDELINE: 880.1100
           Product Identity and Composition
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
48321800 Management Contract Services, Inc. (2010) Submission of Efficacy Da
         ta in Support of the Amended Registration of Z112-012. Transmittal
         of 1 Study.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                         12/13/10
         Administrative No: 063823-58
         NO laboratory records for MRID: 48321800
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 10
            Pesticide Use
         CONTENT CATEGORY: Transmittal Documents
48321801 Szymczyk, J. (2010) Field Efficacy Determination of Z112-012 End-Us
          e Formulation against Aedes aegypti (L.) Mosquito Larvae. Project
         Number: FR/R0200. Unpublished study prepared by Management Contrac
          t Services, Inc. 26 p.
          Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
             063823
                                          483218 01
                         12/13/10
```

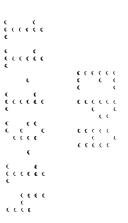
Administrative No: 063823-58

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Laboratory No.: 063823
                                   MANAGEMENT CONTRACT SERVICES, INC.
        Lab Project No.: FR/R0200
        *** Chemistry Indexing ***
        SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 1005
           Pesticide Use - Product Performance (Efficacy)
        GUIDELINE: 95-10
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        DT SITE: HOSPITAL NONCRITICAL PREMISES (E.G. LABS, WAITING ROOMS)
        DT PEST: MOSQUITOES
*** END OF OUTPUT ***
```

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APPENDIX E - Z112-013 - EPA REGISTRATION NO. 63823-61



My NPIRS

Searches

Meetings

Resources

Contacts

63823-61

Citation, Submitter, Laboratory, Chemistry and Subject

Date of Search: 11/13/14 Time of Search: 15:55

Last Search: PRODUCT DATABASE - EPA REGISTRATION NUMBERS

Number of Citations Selected: 12

47795600 Management Contract Services, Inc. (2009) Submission of Product Che mistry, Toxicity, and Efficacy Data in Support of the Application f or Registration of Z112-013. Transmittal of 9 Studies.

Trade Secret Status: Document Contains CBI

Submitter: MANAGEMENT CONTRACT SERVICES, INC. Submitter No. Submission Date Accession No. 063823 07/02/09 477956 00

Administrative No: 063823-61

NO laboratory records for MRID: 47795600

*** Chemistry Indexing ***

SUBSTANCE CLASS: Single FORMULATION: Not Formulated Pesticide

2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
thyl ester, (2E, 4E, 7S)-, (105402)

*** Subject Indexing ***

ROOT DT: 05

Product/Manufacturing Chemistry & Analysis CONTENT CATEGORY: Transmittal Documents

ROOT DT: 10
Pesticide Use

CONTENT CATEGORY: Transmittal Documents

ROOT DT: 40

Pesticide Effects on Non-target Animals (Including Man)
CONTENT CATEGORY: Transmittal Documents

47795601 Akstins, E. (2008) Product Identity and Composition of Z112-013. P roject Number: 081108/1. Unpublished study prepared by Management Contract Services, Inc. 79 p.

Trade Secret Status: CBI Document, Confidential A

Submitter: MANAGEMENT CONTRACT SERVICES, INC. Submitter No. Submission Date Accession No. 063823 07/02/09 477956 01

Administrative No: 063823-61

Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.

```
Lab Project No.: 081108/1
       *** Chemistry Indexing ***
                                      FORMULATION: Not Formulated Pesticide
       SUBSTANCE CLASS: Single
          2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
            thyl ester, (2E, 4E, 7S)-, (105402)
       *** Subject Indexing ***
       ROOT DT: 050519
          Physical/Chemical - Miscibility
       GUIDELINE: 830.6319
          Miscibility
       CONTENT CATEGORY: Complete Primary Report -- Experimental Research
       ROOT DT: 052010
          Product Mfg - Beginning Materials & Mfg Process
       GUIDELINE: 880.1200
          Desc. of Starting Materials, Production and Formulation Process
       CONTENT CATEGORY: Complete Primary Report -- Experimental Research
       ROOT DT: 052020
          Product Mfg - Formation of Unintentional Ingred/Impurities
       GUIDELINE: 880.1400
          Discussion of Formation of Impurities
       CONTENT CATEGORY: Complete Primary Report -- Experimental Research
       ROOT DT: 05202502
           Product Mfg - Preliminary Analysis
        GUIDELINE: 830.1700
           Preliminary Analysis
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 05202504
           Product Mfg - Certification of Limits
        GUIDELINE: 830.1750
           Certified Limits
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 05202506
           Product Mfg - Analytical Methods to Verify Limits
        GUIDELINE: 830.1800
           Enforcement Analytical Method
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 0530
           Composition of Pesticide Products
        GUIDELINE: 880.1100
           Product Identity and Composition
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
47795602 Kaminsky, M. (2008) Z112-013: Product Chemistry: Final Report. Pro
        ject Number: 11582/08. Unpublished study prepared by Stillmeadow,
        Inc. 21 p.
        Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                      07/02/09
                                         477956 02
         Administrative No: 063823-61
         Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
```

```
958053
                           STILLMEADOW, INC.
Lab Project No.: 11582/08
*** Chemistry Indexing ***
                                FORMULATION: Not Formulated Pesticide
SUBSTANCE CLASS: Single
   2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
     thyl ester, (2E, 4E, 7S)-, (105402)
*** Subject Indexing ***
ROOT DT: 050502
   Physical/Chemical - Color
GUIDELINE: 830.6302
   Color
CONTENT CATEGORY: Complete Primary Report -- Experimental Research
ROOT DT: 050503
   Physical/Chemical - Physical State
GUIDELINE: 830.6303
   Physical State
CONTENT CATEGORY: Complete Primary Report -- Experimental Research
ROOT DT: 050504
   Physical/Chemical - Odor
GUIDELINE: 830.6304
 CONTENT CATEGORY: Complete Primary Report -- Experimental Research
ROOT DT: 050507
    Physical/Chemical - Density or Gravity
 GUIDELINE: 830.7300
    Density/Relative Density/Bulk Density
 CONTENT CATEGORY: Complete Primary Report -- Experimental Research
 ROOT DT: 050512
    Physical/Chemical - pH
 GUIDELINE: 830.7000
 CONTENT CATEGORY: Complete Primary Report -- Experimental Research
 ROOT DT: 050513
    Physical/Chemical - Stability
 GUIDELINE: 830.6313
    Stability to Normal and Elevated
 CONTENT CATEGORY: Complete Primary Report -- Experimental Research
 ROOT DT: 050515
    Physical/Chemical - Flammability
 GUIDELINE: 830.6315
    Flammability
 CONTENT CATEGORY: Complete Primary Report -- Experimental Research
 ROOT DT: 050518
     Physical/Chemical - Viscosity
  GUIDELINE: 830.7100
     Viscosity
  CONTENT CATEGORY: Complete Primary Report -- Experimental Research
  ROOT DT: 050530
     Physical/Chemical - Ultraviolet Absorption
  GUIDELINE: 830.7050
     UV/Visible Absorption
```

CONTENT CATEGORY: Complete Primary Report -- Experimental Research

```
47795603 Kuhn, J. (2008) Z112-013: Acute Oral Toxicity Study (UDP) In Rats:
         Final Report. Project Number: 11575/08. Unpublished study prepare
         d by Stillmeadow, Inc. 12 p.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
                       07/02/09
         Administrative No: 063823-61
         Laboratory No.: 063823
                                   MANAGEMENT CONTRACT SERVICES, INC.
                         958053 STILLMEADOW, INC.
         Lab Project No.: 11575/08
         *** Chemistry Indexing ***
                                        FORMULATION: Not Formulated Pesticide
         SUBSTANCE CLASS: Single
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 40050505
            Acute Exposure - Oral
         GUIDELINE: 870.1100
            Acute Oral Toxicity
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
         TEST ORGANISM: Laboratory Mammals - Rat
 47795604 Kuhn, J. (2008) Z112-013: Acute Dermal Toxicity Study in Rats: Fina
         1 Report. Project Number: 11576/08. Unpublished study prepared by
          Stillmeadow, Inc. 14 p.
          Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
            063823
                        07/02/09 477956 04
          Administrative No: 063823-61
          Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
                           958053 STILLMEADOW, INC.
          Lab Project No.: 11576/08
          *** Chemistry Indexing ***
          SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
             2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
               thyl ester, (2E, 4E, 7S)-, (105402)
          *** Subject Indexing ***
          ROOT DT: 40050510
             Acute Exposure - Dermal
          GUIDELINE: 870.1200
             Acute Dermal Toxicity
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
          TEST ORGANISM: Laboratory Mammals - Rat
```

47795605 Carter, L. (2008) Z112-013: Acute Inhalation Toxicity Study in Rat

s: Final Report. Project Number: 11577/08. Unpublished study prep

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ared by Stillmeadow, Inc. 20 p.
       Trade Secret Status: Document Contains CBI
        Submitter: MANAGEMENT CONTRACT SERVICES, INC.
        Submitter No. Submission Date Accession No.
          063823
                     07/02/09 477956 05
        Administrative No: 063823-61
        Laboratory No.: 063823
                                  MANAGEMENT CONTRACT SERVICES, INC.
                        958053 STILLMEADOW, INC.
        Lab Project No.: 11577/08
        *** Chemistry Indexing ***
        SUBSTANCE CLASS: Single
                                     FORMULATION: Not Formulated Pesticide
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 40050515
           Acute Exposure - Respiratory/Inhalation
        GUIDELINE: 870.1300
           Acute Inhalation Toxicity
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        TEST ORGANISM: Laboratory Mammals - Rat
47795606 Kuhn, J. (2008) Z112-013: Acute Eye Irritation Study in Rabbits: F
         inal Report. Project Number: 11578/08. Unpublished study prepared
         by Stillmeadow, Inc. 18 p.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
                        07/02/09
                                       477956 06
         Administrative No: 063823-61
         Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
                         958053 STILLMEADOW, INC.
         Lab Project No.: 11578/08
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 40050540
            Acute Exposure - Primary Eye Irritation
         GUIDELINE: 870.2400
            Acute Eye Irritation
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
         TEST ORGANISM: Laboratory Mammals - Rabbit
 47795607 Kuhn, J. (2008) Z112-013: Acute Dermal Irritation Study in Rabbits:
          Final Report. Project Number: 11579/08. Unpublished study prepar
          ed by Stillmeadow, Inc. 13 p.
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Trade Secret Status: Document Contains CBI

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Submitter: MANAGEMENT CONTRACT SERVICES, INC.
        Submitter No. Submission Date Accession No.
                     07/02/09 477956 07
        Administrative No: 063823-61
        Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
                        958053 STILLMEADOW, INC.
        Lab Project No.: 11579/08
        *** Chemistry Indexing ***
                                       FORMULATION: Not Formulated Pesticide
        SUBSTANCE CLASS: Single
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 40050535
           Acute Exposure - Primary Dermal Irritation
        GUIDELINE: 870.2500
           Acute Dermal Irritation
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        TEST ORGANISM: Laboratory Mammals - Rabbit
47795608 Kuhn, J. (2008) Z112-013: Skin Sensitization Study in Guinea Pigs:
        Final Report. Project Number: 11580/08. Unpublished study prepare
        d by Stillmeadow, Inc. 18 p.
        Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
                        07/02/09
                                       477956 08
            063823
         Administrative No: 063823-61
         Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
                         958053 STILLMEADOW, INC.
         Lab Project No.: 11580/08
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 40051020
            Subacute or Subchronic Exposure - Dermal Sensitization
         GUIDELINE: 870.2600
            Skin Sensitization
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
         TEST ORGANISM: Laboratory Mammals - Guinea Pig
 47795609 Akstins, E.; Coon, B. (2008) Field Efficacy Evaluation of Z112-01
          3 20% Microencapsulation (ME) Formulation on Aedes aegypti and Cule
          x quinquefasciatus Mosquito Larvae. Project Number: FR/R0100. Unp
          ublished study prepared by Management Contract Services, Inc. 19 p
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Trade Secret Status: Document Contains CBI

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Submitter: MANAGEMENT CONTRACT SERVICES, INC.
        Submitter No. Submission Date Accession No.
                        07/02/09
                                       477956 09
        Administrative No: 063823-61
        Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
        Lab Project No.: FR/R0100
        *** Chemistry Indexing ***
                                       FORMULATION: Not Formulated Pesticide
        SUBSTANCE CLASS: Single
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 1005
           Pesticide Use - Product Performance (Efficacy)
        GUIDELINE: 810.3400
           Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        DT SITE: DOMESTIC AND COMMERICAL NONPOTABLE WATER (WHIRLPOOL BATH)
        DT PEST: MOSQUITOES
48480700 Management Contract Services, Inc. (2011) Submission of Product Che
         mistry Data in Support of the Registrations of Z112-O13 and Z112-O1
         4. Transmittal of 1 Study.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                        05/13/11
                                        484807 00
         Administrative No: 063823-61
                           063823-62
         NO laboratory records for MRID: 48480700
         *** Chemistry Indexing ***
                                         FORMULATION: Not Formulated Pesticide
         SUBSTANCE CLASS: Single
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 05
            Product/Manufacturing Chemistry & Analysis
         CONTENT CATEGORY: Transmittal Documents
 48480701 Kaminsky, M. (2011) Z112-013: Storage Stability with Corrosion Char
          acteristics: Final Report. Project Number: 13781/10. Unpublished
         study prepared by Stillmeadow, Inc. 15 p.
          Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
             063823
                        05/13/11
                                        484807 01
          Administrative No: 063823-61
                             063823-62
          Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
```

958053

```
Lab Project No.: 13781/10

*** Chemistry Indexing ***

SUBSTANCE CLASS: Single FORMULATION: Not Formulated Pesticide

2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle

thyl ester, (2E, 4E, 7S)-, (105402)
```

STILLMEADOW, INC.

*** Subject Indexing ***

ROOT DT: 050520

Physical/Chemical - Corrosion Characteristics

GUIDELINE: 830.6320

Corrosion Characteristics

CONTENT CATEGORY: Complete Primary Report -- Experimental Research

ROOT DT: 0525
Storage Stability/Shelf Life
GUIDELINE: 830.6317
Storage Stability

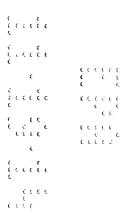
CONTENT CATEGORY: Complete Primary Report -- Experimental Research

*** END OF OUTPUT ***

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APPENDIX F - Z112-014 - EPA REGISTRATION NO. 63823-62



63823-62

My NPIRS

Searches

Meetinas

Resources

Contacts

Citation, Submitter, Laboratory, Chemistry and Subject

Date of Search: 11/13/14 Time of Search: 15:56

Last Search: PRODUCT DATABASE - EPA REGISTRATION NUMBERS

Number of Citations Selected: 6

47795700 Management Contract Services, Inc. (2008) Submission of Product Che mistry and Efficacy Data in Support of the Application for Registra tion of Z112-014. Transmittal of 3 Studies.

Trade Secret Status: Document Contains CBI

Submitter: MANAGEMENT CONTRACT SERVICES, INC. Submitter No. Submission Date Accession No. 063823 07/02/09 477957 00

Administrative No: 063823-62

NO laboratory records for MRID: 47795700

*** Chemistry Indexing ***

SUBSTANCE CLASS: Single FORMULATION: Not Formulated Pesticide

2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
thyl ester, (2E, 4E, 7S)-, (105402)

*** Subject Indexing ***

ROOT DT: 05

Product/Manufacturing Chemistry & Analysis CONTENT CATEGORY: Transmittal Documents

ROOT DT: 10 Pesticide Use

CONTENT CATEGORY: Transmittal Documents

47795701 Akstins, E. (2008) Product Identity and Composition of Z112-014.

Project Number: 081126/1. Unpublished study prepared by Management
Contract Services, Inc. 82 p.

Trade Secret Status: CBI Document, Confidential A

Submitter: MANAGEMENT CONTRACT SERVICES, INC.
Submitter No. Submission Date Accession No.
063823 07/02/09 477957 01

Administrative No: 063823-62

Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.

Lab Project No.: 081126/1

*** Chemistry Indexing ***

SUBSTANCE CLASS: Single FORMULATION: Not Formulated Pesticide

100

```
2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
            thyl ester, (2E, 4E, 7S)-, (105402)
       *** Subject Indexing ***
       ROOT DT: 050519
          Physical/Chemical - Miscibility
       GUIDELINE: 830.6319
          Miscibility
       CONTENT CATEGORY: Complete Primary Report -- Experimental Research
       ROOT DT: 052010
          Product Mfg - Beginning Materials & Mfg Process
       GUIDELINE: 880.1200
          Desc. of Starting Materials, Production and Formulation Process
       CONTENT CATEGORY: Complete Primary Report -- Experimental Research
       ROOT DT: 052020
           Product Mfg - Formation of Unintentional Ingred/Impurities
        GUIDELINE: 880.1400
           Discussion of Formation of Impurities
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 05202502
           Product Mfg - Preliminary Analysis
        GUIDELINE: 830.1700
           Preliminary Analysis
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 05202504
           Product Mfg - Certification of Limits
        GUIDELINE: 830.1750
           Certified Limits
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 05202506
           Product Mfg - Analytical Methods to Verify Limits
        GUIDELINE: 830.1800
           Enforcement Analytical Method
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 0530
           Composition of Pesticide Products
        GUIDELINE: 880.1100
           Product Identity and Composition
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
47795702 Kaminsky, M. (2008) Z112-014: Product Chemistry: Final Report. Pro
         ject Number: 11585/08. Unpublished study prepared by Stillmeadow,
         Inc. 21 p.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                        07/02/09
                                         477957 02
         Administrative No: 063823-62
         Laboratory No.: 958053 STILLMEADOW, INC.
         Lab Project No.: 11585/08
         *** Chemistry Indexing ***
```

```
FORMULATION: Not Formulated Pesticide
      SUBSTANCE CLASS: Single
         2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
           thyl ester, (2E, 4E, 7S)-, (105402)
      *** Subject Indexing ***
      ROOT DT: 050502
         Physical/Chemical - Color
      GUIDELINE: 830.6302
         Color
       CONTENT CATEGORY: Complete Primary Report -- Experimental Research
       ROOT DT: 050503
          Physical/Chemical - Physical State
       GUIDELINE: 830.6303
          Physical State
       CONTENT CATEGORY: Complete Primary Report -- Experimental Research
       ROOT DT: 050504
          Physical/Chemical - Odor
       GUIDELINE: 830.6304
       CONTENT CATEGORY: Complete Primary Report -- Experimental Research
       ROOT DT: 050507
          Physical/Chemical - Density or Gravity
       GUIDELINE: 830.7300
          Density/Relative Density/Bulk Density
       CONTENT CATEGORY: Complete Primary Report -- Experimental Research
       ROOT DT: 050512
          Physical/Chemical - pH
       GUIDELINE: 830.7000
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 050513
          Physical/Chemical - Stability
        GUIDELINE: 830.6313
           Stability to Normal and Elevated
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 050515
           Physical/Chemical - Flammability
        GUIDELINE: 830.6315
           Flammability
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 050518
           Physical/Chemical - Viscosity
        GUIDELINE: 830.7100
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 050530
           Physical/Chemical - Ultraviolet Absorption
        GUIDELINE: 830.7050
           UV/Visible Absorption
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
47795703 Akstins, E.; Coon, B. (2008) Field Efficacy Evaluation of Z112-014
                                                                                              . . . .
         5% S-Methoprene Microencapsulation (ME) Formulation on Aedes aegypt
         i and Culex quinquefasciatus Mosquito Larvae. Project Number: FR/R
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0101. Unpublished study prepared by Management Contract Services,

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Inc. 19 p.
       Trade Secret Status: Document Contains CBI
       Submitter: MANAGEMENT CONTRACT SERVICES, INC.
       Submitter No. Submission Date Accession No.
           063823
                        07/02/09
        Administrative No: 063823-62
        Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
        Lab Project No.: FR/R0101
        *** Chemistry Indexing ***
        SUBSTANCE CLASS: Single
                                       FORMULATION: Not Formulated Pesticide
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 1005
           Pesticide Use - Product Performance (Efficacy)
        GUIDELINE: 810.3400
           Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        DT SITE: SWIMMING POOL WATER SYSTEMS
        DT PEST: MOSQUITOES
48480700 Management Contract Services, Inc. (2011) Submission of Product Che
        mistry Data in Support of the Registrations of Z112-013 and Z112-01
        4. Transmittal of 1 Study.
        Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                        05/13/11
                                       484807 00
         Administrative No: 063823-61
                           063823-62
         NO laboratory records for MRID: 48480700
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 05
            Product/Manufacturing Chemistry & Analysis
         CONTENT CATEGORY: Transmittal Documents
48480701 Kaminsky, M. (2011) Z112-013: Storage Stability with Corrosion Char
         acteristics: Final Report. Project Number: 13781/10. Unpublished
         study prepared by Stillmeadow, Inc. 15 p.
         Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
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11/13/2014

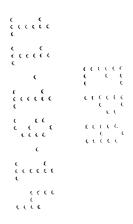
05/13/11

484807 01

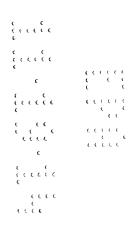
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Administrative No: 063823-61
                          063823-62
        Laboratory No.: 063823
                                   MANAGEMENT CONTRACT SERVICES, INC.
                         958053
                                   STILLMEADOW, INC.
        Lab Project No.: 13781/10
        *** Chemistry Indexing ***
                                        FORMULATION: Not Formulated Pesticide
        SUBSTANCE CLASS: Single
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 050520
           Physical/Chemical - Corrosion Characteristics
        GUIDELINE: 830.6320
           Corrosion Characteristics
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        ROOT DT: 0525
           Storage Stability/Shelf Life
        GUIDELINE: 830.6317
            Storage Stability
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
*** END OF OUTPUT ***
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APPENDIX G - Z112-016 - EPA REGISTRATION NO. 63823-65



My NPIRS

Searches

Meetings

Resources

Contacts

63823.65

Citation, Submitter, Laboratory, Chemistry and Subject

Date of Search: 11/13/14 Time of Search: 15:57

Last Search: PRODUCT DATABASE - EPA REGISTRATION NUMBERS

Number of Citations Selected: 12

48985300 Management Contract Services, Inc. (2012) Submission of Product Che mistry, Toxicity, Efficacy, Environmental Fate and Residue Data in Support of the Application for Registration of Z112-016. Transmitt al of 11 Studies.

Trade Secret Status: Document Contains CBI

Submitter: MANAGEMENT CONTRACT SERVICES, INC. Submitter No. Submission Date Accession No. 063823 11/02/12 489853 00

Administrative No: 063823-65

NO laboratory records for MRID: 48985300

*** Chemistry Indexing ***

SUBSTANCE CLASS: Single FORMULATION: Not Formulated Pesticide

2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle

thyl ester, (2E, 4E, 7S)-, (105402)

*** Subject Indexing ***

ROOT DT: 05

Product/Manufacturing Chemistry & Analysis CONTENT CATEGORY: Transmittal Documents

ROOT DT: 10
Pesticide Use

CONTENT CATEGORY: Transmittal Documents

ROOT DT: 25

Residues in Food or Feed Commodities CONTENT CATEGORY: Transmittal Documents

ROOT DT: 30

Pesticide Fate & Residues in the Environment CONTENT CATEGORY: Transmittal Documents

ROOT DT: 40

Pesticide Effects on Non-target Animals (Including Man)

CONTENT CATEGORY: Transmittal Documents

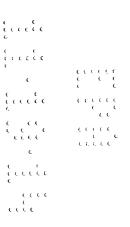
48985301 Ulrich, J. (2012) Product Identity and Composition of Z112-016. Pr oject Number: 120529/1. Unpublished study prepared by Management C ontract Services, Inc. 66p.

Trade Secret Status: CBI Document, Confidential A



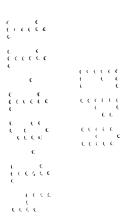
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Submitter: MANAGEMENT CONTRACT SERVICES, INC.
Submitter No. Submission Date Accession No.
                11/02/12
Administrative No: 063823-65
Laboratory No.: 063823
                           MANAGEMENT CONTRACT SERVICES, INC.
Lab Project No.: 120529/1
*** Chemistry Indexing ***
SUBSTANCE CLASS: Single
                                FORMULATION: Not Formulated Pesticide
   2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
     thyl ester, (2E, 4E, 7S)-, (105402)
*** Subject Indexing ***
ROOT DT: 052010
   Product Mfg - Beginning Materials & Mfg Process
GUIDELINE: 830.1600
   Description of Materials Used to Produce the Product
CONTENT CATEGORY: Complete Primary Report -- Experimental Research
ROOT DT: 052010
   Product Mfg - Beginning Materials & Mfg Process
GUIDELINE: 830.1620
   Description of Production Process
CONTENT CATEGORY: Complete Primary Report -- Experimental Research
ROOT DT: 052010
   Product Mfg - Beginning Materials & Mfg Process
GUIDELINE: 830.1650
   Description of Formulation Process
 CONTENT CATEGORY: Complete Primary Report -- Experimental Research
 ROOT DT: 052010
   Product Mfg - Beginning Materials & Mfg Process
 GUIDELINE: 880.1200
    Desc. of Starting Materials, Production and Formulation Process
 CONTENT CATEGORY: Complete Primary Report -- Experimental Research
 ROOT DT: 052020
    Product Mfg - Formation of Unintentional Ingred/Impurities
 GUIDELINE: 830.1670
    Discussion of Formation of Impurities
 CONTENT CATEGORY: Complete Primary Report -- Experimental Research
 ROOT DT: 052020
    Product Mfg - Formation of Unintentional Ingred/Impurities
 GUIDELINE: 880.1400
    Discussion of Formation of Impurities
 CONTENT CATEGORY: Complete Primary Report -- Experimental Research
 ROOT DT: 05202504
    Product Mfg - Certification of Limits
 GUIDELINE: 830.1750
    Certified Limits
 CONTENT CATEGORY: Complete Primary Report -- Experimental Research
  ROOT DT: 0530
     Composition of Pesticide Products
  GUIDELINE: 880.1100
     Product Identity and Composition
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CONTENT CATEGORY: Complete Primary Report -- Experimental Research
48985302 Miller, R. (2012) Physical and Chemical Characteristics of Z112-016
        . Project Number: ARC/EX/1049. Unpublished study prepared by Anal
        ytical & Regulatory Chemistry, Inc. 11p.
        Trade Secret Status: Document Contains CBI
        Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
                        11/02/12
                                       489853 02
         Administrative No: 063823-65
         Laboratory No.: 087247 ANALYTICAL & REGULATORY CHEMISTRY, INC.
         Lab Project No.: ARC/EX/1049
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 050502
            Physical/Chemical - Color
         GUIDELINE: 830.6302
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
         ROOT DT: 050503
            Physical/Chemical - Physical State
         GUIDELINE: 830.6303
            Physical State
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
         ROOT DT: 050504
            Physical/Chemical - Odor
          GUIDELINE: 830.6304
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
          ROOT DT: 050507
            Physical/Chemical - Density or Gravity
          GUIDELINE: 830.7300
            Density/Relative Density/Bulk Density
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
          ROOT DT: 050512
             Physical/Chemical - pH
          GUIDELINE: 830.7000
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
 48985303 Kuhn, J. (2012) Z112-016: Acute Oral Toxicity Study (UDP) in Rats:
          Final Report. Project Number: 15875/11. Unpublished study prepare
          d by Stillmeadow, Inc. 11p.
          Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
             063823 11/02/12 489853 03
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Administrative No: 063823-65
        Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
                         958053 STILLMEADOW, INC.
        Lab Project No.: 15875/11
        *** Chemistry Indexing ***
        SUBSTANCE CLASS: Single
                                       FORMULATION: Not Formulated Pesticide
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 40050505
           Acute Exposure - Oral
        GUIDELINE: 870.1100
           Acute Oral Toxicity
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        TEST ORGANISM: Laboratory Mammals - Rat
48985304 Kuhn, J. (2012) Z112-016: Acute Dermal Toxicity Study in Rats: Fina
         1 Report. Project Number: 15876/11. Unpublished study prepared by
         Stillmeadow, Inc. 12p.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                        11/02/12
                                       489853 04
         Administrative No: 063823-65
         Laboratory No.: 063823
                                   MANAGEMENT CONTRACT SERVICES, INC.
                          958053 STILLMEADOW, INC.
         Lab Project No.: 15876/11
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 40050510
            Acute Exposure - Dermal
         GUIDELINE: 870.1200
            Acute Dermal Toxicity
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
         TEST ORGANISM: Laboratory Mammals - Rat
48985305 Miller, R. (2012) Attrition of Z112-016. Project Number: ARC/EX/10
         51. Unpublished study prepared by Analytical & Regulatory Chemistr
         y, Inc. 9p.
         Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
            063823
                        11/02/12
                                         489853 05
          Administrative No: 063823-65
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Laboratory No.: 087247
                                  ANALYTICAL & REGULATORY CHEMISTRY, INC.
        Lab Project No.: ARC/EX/1051
        *** Chemistry Indexing ***
                                       FORMULATION: Not Formulated Pesticide
        SUBSTANCE CLASS: Single
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 05
           Product/Manufacturing Chemistry & Analysis
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
48985306 Kuhn, J. (2012) Z112-016: Acute Eye Irritation Study in Rabbits: Fi
        nal Report. Project Number: 15877/11. Unpublished study prepared
        by Stillmeadow, Inc. 17p.
        Trade Secret Status: Document Contains CBI
        Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
           063823
                         11/02/12 489853 06
         Administrative No: 063823-65
         Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
                         958053 STILLMEADOW, INC.
         Lab Project No.: 15877/11
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 40050540
            Acute Exposure - Primary Eye Irritation
         GUIDELINE: 870.2400
            Acute Eve Irritation
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
         TEST ORGANISM: Laboratory Mammals - Rabbit
 48985307 Kuhn, J. (2012) Z112-016: Acute Dermal Irritation Study in Rabbits:
          Final Report. Project Number: 15878/11. Unpublished study prepar
          ed by Stillmeadow, Inc. 11p.
          Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
            063823
                         11/02/12
                                         489853 07
          Administrative No: 063823-65
          Laboratory No.: 063823
                                    MANAGEMENT CONTRACT SERVICES, INC.
                          958053
                                    STILLMEADOW, INC.
          Lab Project No.: 15878/11
          *** Chemistry Indexing ***
          SUBSTANCE CLASS: Single FORMULATION: Not Formulated Pesticide
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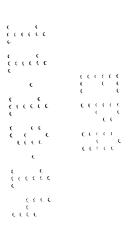


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2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 40050535
           Acute Exposure - Primary Dermal Irritation
        GUIDELINE: 870.2500
           Acute Dermal Irritation
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        TEST ORGANISM: Laboratory Mammals - Rabbit
48985308 Kuhn, J. (2012) Z112-016: Skin Sensitization Study in Guinea Pigs:
        Final Report. Project Number: 15879/11. Unpublished study prepare
        d by Stillmeadow, Inc. 16p.
        Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                        11/02/12 489853 08
         Administrative No: 063823-65
         Laboratory No.: 063823
                                   MANAGEMENT CONTRACT SERVICES, INC.
                         958053 STILLMEADOW, INC.
         Lab Project No.: 15879/11
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 40051020
            Subacute or Subchronic Exposure - Dermal Sensitization
         GUIDELINE: 870.2600
            Skin Sensitization
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
         TEST ORGANISM: Laboratory Mammals - Guinea Pig
48985309 Bennett, R. (2012) Efficacy of Z112-012 and Z112-016 Formulations a
         gainst Aedes aegypti and Culex quinquefasciatus Larvae: Final Repor
         t. Project Number: AU/2011/39. Unpublished study prepared by JRF
         America. 21p.
          Trade Secret Status: Document Contains CBI
          Submitter: MANAGEMENT CONTRACT SERVICES, INC.
          Submitter No. Submission Date Accession No.
            063823
                         11/02/12
                                         489853 09
          Administrative No: 063823-65
          Laboratory No.: 089695 JRF AMERICA
          Lab Project No.: AU/2011/39
          *** Chemistry Indexing ***
          SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
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               thyl ester, (2E, 4E, 7S)-, (105402)
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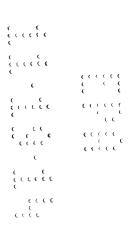
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        ROOT DT: 1005
           Pesticide Use - Product Performance (Efficacy)
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
        DT SITE: HOSPITAL NONCRITICAL PREMISES (E.G. LABS, WAITING ROOMS)
        DT PEST: MOSQUITOES
48985310 Bennett, R. (2012) Expected Environmental Concentration of Methopre
        ne in Water following a Single Application of Z112-016 (2.10% Metho
        prene) Formulation: Final Report. Project Number: AU/2011/28. Unp
        ublished study prepared by JRF America. 32p.
        Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                         11/02/12
                                        489853 10
         Administrative No: 063823-65
         Laboratory No.: 089695 JRF AMERICA
         Lab Project No.: AU/2011/28
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 300510
            Fate in Water (Including Water with Suspended Solids)
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
48985311 Bennett, R. (2012) Validation of Method AU-259RO for the Analysis o
         f Methoprene in Aqueous Media. Project Number: AU/2011/29. Unpubl
         ished study prepared by JRF America. 51p.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                         11/02/12
                                          489853 11
          Administrative No: 063823-65
          Laboratory No.: 089695
                                   JRF AMERICA
          Lab Project No.: AU/2011/29
          *** Chemistry Indexing ***
          SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
             2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
               thyl ester, (2E, 4E, 7S)-, (105402)
          *** Subject Indexing ***
          ROOT DT: 25
             Residues in Food or Feed Commodities
          CONTENT CATEGORY: Analytical Method
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APPENDIX H - Z112-015 - EPA REGISTRATION NO. 63823-66



My NPIRS

Searches

Meetings

Resources

Contacts

63823-66

Citation, Submitter, Laboratory, Chemistry and Subject

Date of Search: 11/13/14 Time of Search: 15:58

Last Search: PRODUCT DATABASE - EPA REGISTRATION NUMBERS

Number of Citations Selected: 7

48985100 Management Contract Services, Inc. (2012) Submission of Product Che mistry, Efficacy, Exposure/Fate and Residue Data in Support of the Application for Registration of Z112-015. Transmittal of 6 Studies

Trade Secret Status: Document Contains CBI

Submitter: MANAGEMENT CONTRACT SERVICES, INC.
Submitter No. Submission Date Accession No.
063823 11/02/12 489851 00

Administrative No: 063823-66

NO laboratory records for MRID: 48985100

*** Chemistry Indexing ***

SUBSTANCE CLASS: Single FORMULATION: Not Formulated Pesticide 2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle thyl ester, (2E, 4E, 7S)-, (105402)

*** Subject Indexing ***

ROOT DT: 05

Product/Manufacturing Chemistry & Analysis CONTENT CATEGORY: Transmittal Documents

ROOT DT: 10
Pesticide Use

CONTENT CATEGORY: Transmittal Documents

ROOT DT: 25

Residues in Food or Feed Commodities CONTENT CATEGORY: Transmittal Documents

ROOT DT: 30

Pesticide Fate & Residues in the Environment CONTENT CATEGORY: Transmittal Documents

48985101 Ulrich, J. (2012) Product Identity and Composition of Z112-015. Pr oject Number: 120900/1. Unpublished study prepared by Management C ontract Services, Inc. 66p.

Trade Secret Status: CBI Document, Confidential A

Submitter: MANAGEMENT CONTRACT SERVICES, INC.
Submitter No. Submission Date Accession No.
063823 11/02/12 489851 01



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Administrative No: 063823-66
Laboratory No.: 063823
                          MANAGEMENT CONTRACT SERVICES, INC.
Lab Project No.: 120900/1
*** Chemistry Indexing ***
SUBSTANCE CLASS: Single
                                FORMULATION: Not Formulated Pesticide
   2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
     thyl ester, (2E, 4E, 7S)-, (105402)
*** Subject Indexing ***
ROOT DT: 050512
   Physical/Chemical - pH
GUIDELINE: 830.7000
CONTENT CATEGORY: Complete Primary Report -- Experimental Research
ROOT DT: 050515
   Physical/Chemical - Flammability
GUIDELINE: 830.6315
   Flammability
CONTENT CATEGORY: Complete Primary Report -- Experimental Research
ROOT DT: 050518
   Physical/Chemical - Viscosity
GUIDELINE: 830.7100
   Viscosity
CONTENT CATEGORY: Complete Primary Report -- Experimental Research
 ROOT DT: 050519
    Physical/Chemical - Miscibility
 GUIDELINE: 830.6319
    Miscibility
 CONTENT CATEGORY: Complete Primary Report -- Experimental Research
 ROOT DT: 052010
    Product Mfg - Beginning Materials & Mfg Process
 GUIDELINE: 880.1200
    Desc. of Starting Materials, Production and Formulation Process
 CONTENT CATEGORY: Complete Primary Report -- Experimental Research
 ROOT DT: 052020
    Product Mfg - Formation of Unintentional Ingred/Impurities
 GUIDELINE: 880.1400
    Discussion of Formation of Impurities
 CONTENT CATEGORY: Complete Primary Report -- Experimental Research
 ROOT DT: 05202502
    Product Mfg - Preliminary Analysis
 GUIDELINE: 830.1700
    Preliminary Analysis
 CONTENT CATEGORY: Complete Primary Report -- Experimental Research
 ROOT DT: 05202504
    Product Mfg - Certification of Limits
 GUIDELINE: 830.1750
    Certified Limits
 CONTENT CATEGORY: Complete Primary Report -- Experimental Research
 ROOT DT: 05202506
     Product Mfg - Analytical Methods to Verify Limits
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```
GUIDELINE: 830.1800
           Enforcement Analytical Method
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
         ROOT DT: 0530
           Composition of Pesticide Products
         GUIDELINE: 880.1100
           Product Identity and Composition
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
48985102 Miller, R. (2012) Physical and Chemical Characteristics of Z112/015
         . Project Number: ARC/EX/1048, ARC/EX/1048/006/P/2, ARC/OP/MTH/036/
         P. Unpublished study prepared by Analytical & Regulatory Chemistry
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
            063823
                          11/02/12
                                          489851 02
         Administrative No: 063823-66
         Laboratory No.: 063823
                                    MANAGEMENT CONTRACT SERVICES, INC.
                          087247 ANALYTICAL & REGULATORY CHEMISTRY, INC.
                                              ARC/EX/1048/006/P/2 ARC/OP/DCS/009/P
                                                                                      ARC/OP/MTH/036/P
         Lab Project No.: ARC/EX/1048
                          ARC/OP/MTH/214/P
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
               thyl ester, (2E, 4E, 7S)-, (105402)
          *** Subject Indexing ***
          ROOT DT: 050502
             Physical/Chemical - Color
          GUIDELINE: 830.6302
             Color
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
          ROOT DT: 050503
             Physical/Chemical - Physical State
          GUIDELINE: 830.6303
             Physical State
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
          ROOT DT: 050504
             Physical/Chemical - Odor
          GUIDELINE: 830.6304
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
          ROOT DT: 050507
             Physical/Chemical - Density or Gravity
          GUIDELINE: 830.7300
             Density/Relative Density/Bulk Density
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
 48985103 Miller, R. (2012) pH of Z112-015. Project Number: ARC/EX/1050, ARC
          /EX/1050/004/P/2, ARC/OP/MTH/001/P. Unpublished study prepared by
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Analytical & Regulatory Chemistry, Inc. 8p.

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Trade Secret Status: Document Contains CBI
       Submitter: MANAGEMENT CONTRACT SERVICES. INC.
       Submitter No. Submission Date Accession No.
          063823
                       11/02/12 489851 03
       Administrative No: 063823-66
        Laboratory No.: 063823 MANAGEMENT CONTRACT SERVICES, INC.
                        087247 ANALYTICAL & REGULATORY CHEMISTRY, INC.
        Lab Project No.: ARC/EX/1050
                                            ARC/EX/1050/004/P/2 ARC/OP/DCS/009/P
                                                                                   ARC/OP/MTH/001/P
        *** Chemistry Indexing ***
                                       FORMULATION: Not Formulated Pesticide
        SUBSTANCE CLASS: Single
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 050512
           Physical/Chemical - pH
        GUIDELINE: 830.7000
           рН
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
48985104 Szymczyk, J. (2012) Efficacy of Z112-011 and Z112-015 Formulations
        Against Aedes aegypti and Culex quinquefasciatus Larvae: Final Repo
        rt. Project Number: AU/2011/38. Unpublished study prepared by JRF
         America. 14p.
        Trade Secret Status: Document Contains CBI
        Submitter: MANAGEMENT CONTRACT SERVICES, INC.
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           063823
                        11/02/12
                                       489851 04
         Administrative No: 063823-66
         Laboratory No.: 063823
                                 MANAGEMENT CONTRACT SERVICES, INC.
         Lab Project No.: AU/2011/38
         *** Chemistry Indexing ***
                                        FORMULATION: Not Formulated Pesticide
         SUBSTANCE CLASS: Single
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 1005
            Pesticide Use - Product Performance (Efficacy)
         GUIDELINE: 93-4
         CONTENT CATEGORY: Complete Primary Report -- Experimental Research
         DT SITE: HOSPITAL NONCRITICAL PREMISES (E.G. LABS, WAITING ROOMS)
         DT PEST: MOSQUITOES
48985105 Bennett, R. (2012) Expected Environmental Concentration of Methopre
         ne in Water Following a Single Application of Z112-015 (1.30% Metho
         prene) Formulation: Final Report. Project Number: AU/2011/33. Unp
         ublished study prepared by JRF America. 31p.
         Trade Secret Status: Document Contains CBI
```

Submitter: MANAGEMENT CONTRACT SERVICES, INC.

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Submitter No. Submission Date Accession No.
                         11/02/12
                                         489851 05
        Administrative No: 063823-66
        Laboratory No.: 063823
                                   MANAGEMENT CONTRACT SERVICES, INC.
        Lab Project No.: AU/2011/33
        *** Chemistry Indexing ***
        SUBSTANCE CLASS: Single
                                        FORMULATION: Not Formulated Pesticide
           2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
             thyl ester, (2E, 4E, 7S)-, (105402)
        *** Subject Indexing ***
        ROOT DT: 30
           Pesticide Fate & Residues in the Environment
        CONTENT CATEGORY: Complete Primary Report -- Experimental Research
48985106 Bennett, R. (2012) Validation of Method AU-259RO for the Analysis o
        f Methoprene in Aqueous Media. Project Number: AU/2011/29. Unpubl
         ished study prepared by JRF America. 51p.
         Trade Secret Status: Document Contains CBI
         Submitter: MANAGEMENT CONTRACT SERVICES, INC.
         Submitter No. Submission Date Accession No.
                          11/02/12
                                          489851 06
            063823
         Administrative No: 063823-66
         Laboratory No.: 063823
                                    MANAGEMENT CONTRACT SERVICES, INC.
         Lab Project No.: AU/2011/29
         *** Chemistry Indexing ***
         SUBSTANCE CLASS: Single
                                         FORMULATION: Not Formulated Pesticide
            2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methyle
              thyl ester, (2E, 4E, 7S)-, (105402)
         *** Subject Indexing ***
         ROOT DT: 251005
            Residues in Food or Feed - Analytical Methods by Commodity
         GUIDELINE: 860.1340
            Residue Analytical Method
          CONTENT CATEGORY: Complete Primary Report -- Experimental Research
         COMMODITY: 1144
 *** END OF OUTPUT ***
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11/13/2014

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Summary Information For Company 63823, MANAGEMENT CONTRACT SERVICES, INC.

Company No:

63823

Company Name:

MANAGEMENT CONTRACT SERVICES, INC.

Division Name:

Office Name:

Branch Name:

Contact Name:

W. RONALD LANDIS

Contact Phone:

(912) 247-6472

Agent Name:

Official Address:

PO Box 5209

VALDOSTA, Georgia 31603

UNITED STATES

Date of Current Update:

05-Nov-2012

Reason for Current Update: Letter

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Last updated on September 12, 2014, Version 1.13 https://w2032pcctr562/pls/prism10p



Summary Information For Company 8329, CLARKE MOSQUITO CONTROL PRODUCTS, INC.

Company No:

8329

Company Name:

CLARKE MOSQUITO CONTROL PRODUCTS, INC.

Division Name:

Office Name:

Branch Name: Contact Name:

MS. KAREN J. LARSON

Contact Phone:

(630) 671-3123

Agent Name:

Official Address:

675 SIDWELL COURT

ST. CHARLES, Illinois 60174

UNITED STATES

Date of Current Update:

17-Jun-2014

Reason for Current Update: Letter from Company